

## SEQUENCE LISTING

<110> Lodes, Michael J.  
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.512

<140> US

<141> 2001-04-11

<160> 440

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 567

<212> DNA

<213> Homo sapien

<400> 1

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| gaattcgggc acgaggcagc gctctcggtt gcagtaccca ctggaaaggac ttaggcgctc  | 60  |
| gcgtggacac cgcaagcccc tcagtaggcct cggcccaaga ggcctgcctt ccactcgcta  | 120 |
| gccccggccgg gggttccgtgt cctgtctcg tgcccgacc cggggcccgag cccgagcagt  | 180 |
| agccggcgcc atgtcggtgg tgggcataga cctgggcttc cagagctgct acgtcgctgt   | 240 |
| ggcccgccgc ggcggcatcg agactatcgc taatgagtat agcgaccgct gcacgcccggc  | 300 |
| ttgcatttct tttgttcata agaatcggtt aattggagca gcagctaaaa gccaggtaat   | 360 |
| ttctaatgca aagaacacag tccaaggatt taaaagattt catggccgag cattctctga   | 420 |
| tccattttgtg gaggcagaaa aatctaacct tgcatatgtt attgtcgagt tgccctacagg | 480 |
| attaacaggt ataaaagggtga catatatgga ggaagagcga aattttacca ctgagcaagt | 540 |
| gactgccatg ctttgtcca aactgaa  | 567 |

<210> 2

<211> 413

<212> DNA

<213> Homo sapien

<400> 2

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|---|-----|
| gaattcggta cgagtgcacg ttgactgtgg gaaactcgga aacaagctca catcttcctg   | 60  |
| tgggaaacct tctagcaaca ggatgaggct qcagtggact qcagttgcca ctttcctcta   | 120 |
| tgcggaggtc tttgttgtgt tgcttctctg cattcccttc atttctccta aaagatggca   | 180 |
| gaagatttc aagtccggc tggtgagggtt gttagtgcctc tatggcaaca ctttcttgc    | 240 |
| ggttctcatt gtcatccttg tgctgttgtt catcgatgcc gtgcgcgaaa ttccggaaagta | 300 |
| tgatgatgtg acggaaaagg tgaaccccca gaacaatccc gggggccatgg agacttcca   | 360 |
| catgaagctt ttccgtgcc agaggaatct ctacattgct ggctttcct tgc            | 413 |

<210> 3  
<211> 567  
<212> DNA  
<213> Homo sapien

<400> 3

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgaggtcgcc | tgagaggat  | cacctttct  | gggctcaaga | tggacaacaa |     |
| gaaggcgcctg | gcctacgcca | tcatccagg  | cctgcgtgac | cagctccggc | acgggggcct | 60  |
| ctcgccat    | gctcaggaga | gcttggaa   | cgccatccag | tgcctggaga | ctgcgtttgg | 120 |
| ggtagcggt   | gaagacagt  | accttgcgt  | ccctcagact | ctgccggaga | tatttgaagc | 180 |
| ggctgccac   | ggcaaggaga | tgccgcagga | cctgaggagc | ccagcgcgaa | ccccgccttc | 240 |
| cgaggaggac  | tcagcagagg | cagagcgcct | caaaaccgaa | ggaaacgagc | agatgaaagt | 300 |
| ggaaaactt   | gaagctgccc | tgcatttcta | cgaaaaagcc | atcgagctca | acccagccaa | 360 |
| cgccgtctat  | ttctgcaaca | gagccgcagc | ctacagcaa  | ctcggcaact | acgcaggcgc | 420 |
| ggtagcaggac | tgtgagcggg | ccatctgcat | tgacccggcc | tacagcaagg | cctacggcag | 480 |
| gatgggcctg  | gcgctttca  | gcctcaaa   |            |            |            | 540 |
|             |            |            |            |            |            | 567 |

<210> 4  
<211> 454  
<212> DNA  
<213> Homo sapien

<400> 4

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagctcccc | gccagctcg  | cttatttagt | gtctctgaca | aaaccggcct  |     |
| tgtgaaattt | gcaagaaacc | tgaccgctct | tggttgaat  | ctggtcgctt | ccggaggggac | 60  |
| tgcaaaagct | ctcaggat   | ctggctcg   | agtcagagat | gtctctgagt | tgacgggatt  | 120 |
| tcctgaaat  | ttggggggac | gtgtgaaaac | tttgcattct | gcagtccatg | ctgaaatcct  | 180 |
| agctcgtaat | attccagaag | ataatgctg  | catggccaga | tttgatttca | atcttataag  | 240 |
| agttgttgc  | tgcaatctct | atccctttt  | aaagacagt  | gtttctccag | gtgtactgt   | 300 |
| tgaggaggct | gtggagcaaa | ttgacattgg | tggagtaacc | ttactgagag | ctgcaagccaa | 360 |
| aaccacgctc | gagtgacagt | gtgtgtgaa  | ccag       |            |             | 420 |
|            |            |            |            |            |             | 454 |

<210> 5  
<211> 424  
<212> DNA  
<213> Homo sapien

<400> 5

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| gaattcggca  | cgagggcagc | tcgagtccac  | cagcagcgcc | gtccgcttga | ccgagatgct |     |
| gcgggcctgt  | cagttatcg  | gtgtgaccgc  | cgccgcccag | agttgtctct | gtgggaagtt | 60  |
| tgtcctccgt  | ccattgcac  | catgcccgcag | atactctact | tcaggcagct | ctgggttgac | 120 |
| tactggcaaa  | attgctggag | ctggcctttt  | gtttgttggt | ggaggtattt | gtggcactat | 180 |
| cctatatgccc | aatgggatt  | cccatttccg  | ggaaagtgt  | gagaaaacca | taccttactc | 240 |
| agacaaactc  | ttcgagatgg | ttcttggtcc  | tgcagcttat | aatgttccat | tgccaaagaa | 300 |
| atcgattcag  | tcgggtccac | taaaaatctc  | tagtgtatca | gaagtaatga | aagaatctaa | 360 |
| acag        |            |             |            |            |            | 420 |
|             |            |             |            |            |            | 424 |

<210> 6  
<211> 515  
<212> DNA  
<213> Homo sapien

<400> 6

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| gaattcggca | cgagccaaag  | tgtgtacatc | agtaagatca | taagcagtga  | tcgagatctc | 60  |
| ttggctgtgg | tgtttatatgg | taccgagaaa | gacaaaaatt | cagtgaattt  | taaaaatatt | 120 |
| tacgtttac  | aggagctgga  | taatccaggt | gc当地acgaa  | ttcttagagct | tgaccagttt | 180 |
| aaggggcagc | agggcacaaa  | acgtttccaa | gacatgatgg | gccacggatc  | tgactactca | 240 |
| ctcagtgaag | tgctgtgggt  | ctgtgccaac | ctcttagtg  | atgtccaatt  | caagatgagt | 300 |
| cataagagga | tcatgtgtt   | caccaatgaa | gacaaccccc | atggcaatga  | cagtgc当地aa | 360 |
| gccagccggg | ccaggaccaa  | agccgggtat | ctccgagata | caggcatctt  | ccttgacttg | 420 |
| atgcacctga | agaaacctgg  | gggctttgac | atatccttgt | tctacagaga  | tatcatcagc | 480 |
| atagcagagg | atgaggacct  | cagggttac  | tttga      |             |            | 515 |

&lt;210&gt; 7

&lt;211&gt; 566

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 7

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgagggacgc | ggaggcgctg | ggcgacggc  | gc当地gcccag | ccggagctcg | 60  |
| aggccggcgg  | ccgcgggaga | gc当地ccggg  | ccgcctcgta | gc当地ggcccc | ggatccccga | 120 |
| gtggcggccg  | gagcctcgaa | aagagattt  | cagcgtgtat | tttgagatga | tgggcttggg | 180 |
| aaacgggcgt  | cgcagcatga | agtcgcccgc | cctcgtgtg  | gccgcctgg  | tggcctgcat | 240 |
| catcgtcttgc | ggcttcaact | actggatttc | gagctccgg  | agcgtggacc | tccagacacg | 300 |
| gatcatggag  | ctggaggca  | gggtccgcag | ggcgctgca  | gagagaggcg | ccgtggagct | 360 |
| gaagaagaac  | gagttccagg | gagagctgaa | gaagcagcgg | gagcagttt  | acaaaatcca | 420 |
| gtccagccac  | aacttccagc | tggagagcgt | caacaagctg | taccaggacg | aaaaggcggt | 480 |
| tttggtaat   | aacatcacca | caggtgagag | gctcatccga | gtgctgcaag | accagttaaa | 540 |
| gaccctgcac  | aggaattacg | gcaggg     |            |            |            | 566 |

&lt;210&gt; 8

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 8

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| gaattcggca  | cgagctgtcc  | tccttgcggg  | tgccggagatg | gttgccttgg  | ttacgggtcc  | 60  |
| taacggtccc  | ctgccttggaa | atcccttgg   | gagggcctgc  | aaccttgc    | ttccgactgg  | 120 |
| agacgccttt  | ggccctcgg   | tgtctgcact  | ggctgctgg   | caaggcttca  | gtgtggagta  | 180 |
| attgacactt  | tgcagaatat  | taaaatcaa   | ttagagaaga  | aaactgatcc  | ataataataa  | 240 |
| aaatgtctcg  | aaaaatttca  | aaggagtcaa  | aaaaagtgaa  | catctcttagt | tctctggaaat | 300 |
| ctgaagatata | tagtttagaa  | acaacagttc  | ctacggatga  | tatttcctca  | tcagaagagc  | 360 |
| gagagggcaa  | agtcagaatc  | accaggcagc  | taattgaacg  | aaaagactac  | ttcataataat | 420 |
| ttagttacta  | aaaattgagc  | tatccagaa   | aactatgatg  | atcgacaatt  | tgaaagtgg   | 480 |
| ttatcttaca  | aagattgaag  | atattggagga | gaaac       |             |             | 515 |

&lt;210&gt; 9

&lt;211&gt; 415

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(415)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 9

|  |     |
|--|-----|
| gaattcggca cgaggctcg tcctgtccaa gttggcgct tccctgcgcc aaagtgagca    | 60  |
| gtagccaaca tgtcagggtg ggagtcatat tacaaaaccg agggcgatga agaagcagag  | 120 |
| gaagaacaag aagagaacct tgaagcaagt ggagactata aatattcagg aagagatagt  | 180 |
| ttgattttt tggttgatgc ctccaaggct atgtttgaat ctcagagtgta agatgagttg  | 240 |
| acacctttt acatgagcat ccaatgtatc caaaatgtgt acatcgtaa gatcataaagc   | 300 |
| agtatcgag atctcttggc tgggtgttc tatgttaccg agaaagacaa aaattcantg    | 360 |
| aattttaaaa atatttacct ttacaggag ctggataatt caggtgcaaa acnaa        | 415 |
| <br>   |     |
| <210> 10   |     |
| <211> 565  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 10   |     |
| gaattcggca cgagctcggt cacgcttgg cccgaaggag gaaacagtga cagacctgga   | 60  |
| gactgcaggt ctctatcctt cacacagctc tttcaccatg cctggatcac ttccttgaa   | 120 |
| tgcagaagct tgctggccaa aagatgtgg aattgttgc cttgagatct attttccttc    | 180 |
| tcaatatgtt gatcaagcag agttggaaaa atatgatggt gtatgtctg gaaagtatac   | 240 |
| cattggctt ggccaggcca agatgggctt ctgcacagat agagaagata ttaactctct   | 300 |
| ttgcatgact gtggtcaga atcttatgaa gagaataaac ctttcctatg attgcattgg   | 360 |
| gcggctggaa gttgaacag agacaatcat cgacaaatca aagtctgtga agactaattt   | 420 |
| gatcagctg tttgaagagt ctggaaatac agatatacaa ggaatcgaca caactaatgc   | 480 |
| atgctatgaa ggcacagctg ctgtttcaa tgctttaac tggattgagt ccagctctt     | 540 |
| ggatggacgg tatcccttgg tagtt  | 565 |
| <br>   |     |
| <210> 11   |     |
| <211> 505  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(505)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 11   |     |
| gaattcggca cgaggcagcg acagactcg ggtgtggca gcggcagccc acgcctcccc    | 60  |
| gggattgcag gcctggcgcc cgggggttggca ccagtctccc gggcatggca cgcctgttt | 120 |
| attctgtacc cgtgatttgt ggcggggcaaa gacgttaagt tgggtgacac cgaggtgagc | 180 |
| cacggtcctc ggcaccaat gaggaaccac tgcgtcaata agtgcacacca gtatgtctgt  | 240 |
| taaacaagga caatccgtt catggattgt gacaacgcac gctgacatca agcagaccct   | 300 |
| gccgtcaggc acagagggca ccacagtgcac caggaactgc tgcctttca taccangttt  | 360 |
| tangaggctt taccanaagg aatggaaaat gctggggc aagtaagatt gaaacagcat    | 420 |
| ctgaggactg gttctgcaca aaacctaata ttcttcaagg actttgacat ttgttattc   | 480 |
| ttgttaacaaa taaaaccta ttctt  | 505 |
| <br>   |     |
| <210> 12   |     |
| <211> 513  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 12   |     |
| gaattcggca cgaggcgcca cgatgtccgg ggagtcagcc aggagcttgg ggaagggaag  | 60  |
| cgcccccggc gggccgtcc cggagggttc gatccgcata tacagcatga gttctgccc    | 120 |

|                      |             |            |            |             |             |     |
|----------------------|-------------|------------|------------|-------------|-------------|-----|
| gttgcgttag           | aggacgcgtc  | tagtcctgaa | ggccaaggga | atcaggcatg  | aagtcatcaa  | 180 |
| tatcaacctg           | aaaaataaagc | ctgagtggtt | ctttaagaaa | aatccctttg  | gtctggtgcc  | 240 |
| agttctggaa           | aacagtcaagg | gtcagctgat | ctacgagtct | gccatcacct  | gtgagtaact  | 300 |
| ggatgaagca           | tacccaggga  | agaagctgtt | gccggatgac | ccctatgaga  | aagcttgcca  | 360 |
| gaagatgatc           | ttagagttgt  | tttctaaggt | gccatcctt  | gttaggaagct | ttattagaag  | 420 |
| ccaaaataaa           | gaagactatg  | atggcctaaa | agaagaattt | cgtaaagaat  | ttaccaagct  | 480 |
| agaggaggtt           | ctgactaata  | agaagacgac | ctt        |             |             | 513 |
| <210> 13             |             |            |            |             |             |     |
| <211> 375            |             |            |            |             |             |     |
| <212> DNA            |             |            |            |             |             |     |
| <213> Homo sapien    |             |            |            |             |             |     |
| <220>                |             |            |            |             |             |     |
| <221> misc_feature   |             |            |            |             |             |     |
| <222> (1)...(375)    |             |            |            |             |             |     |
| <223> n = A,T,C or G |             |            |            |             |             |     |
| <400> 13             |             |            |            |             |             |     |
| gaattcggca           | cgaggcagcc  | ccagtgcgg  | gggcggagac | tgcggccgaca | tggagctgtt  | 60  |
| cctcggggc            | cggcggtgc   | tggtcacccg | ggcaggcaaa | ggtatagggc  | cgccacgggt  | 120 |
| ccaggcgctg           | cacgcgacgg  | gcccgggt   | ggtggctgt  | agccggactc  | aggcggatct  | 180 |
| tgacagccctt          | gtccgcgagt  | gcccggggat | agaaccctgt | tgcgtggacc  | tgggtgactg  | 240 |
| ggaggccacc           | gancgggcgc  | tgggcaacgt | gggccccgtg | gacctgctgg  | tgaacaacgc  | 300 |
| ccctgtcccc           | tgcattcaacc | ctttctggaa | gtcaccaaag | aacgccttga  | cagatcctt   | 360 |
| taagtgaacc           | tgctg       |            |            |             |             | 375 |
| <210> 14             |             |            |            |             |             |     |
| <211> 298            |             |            |            |             |             |     |
| <212> DNA            |             |            |            |             |             |     |
| <213> Homo sapien    |             |            |            |             |             |     |
| <400> 14             |             |            |            |             |             |     |
| gaattcggca           | cgagacagaa  | attaaagtga | aaagaccctt | acgtggagaa  | tttgcattgcg | 60  |
| taatatagga           | aggtgttctt  | tagtatgtt  | acaggattac | tttaaaccat  | ttgactttcg  | 120 |
| ctccaaagtt           | atgttggtag  | tatagcaaat | tatgtgaat  | agctttaatt  | gtatgtttaa  | 180 |
| aagtctcata           | tgttcacatg  | cttaaatctg | ggtatcagaa | tttaagcaat  | tcttggaaatg | 240 |
| tattgtctcc           | ttaatatact  | aattacaaag | aaaaaaaaaa | aaaaaaaaaa  | aactcgag    | 298 |
| <210> 15             |             |            |            |             |             |     |
| <211> 506            |             |            |            |             |             |     |
| <212> DNA            |             |            |            |             |             |     |
| <213> Homo sapien    |             |            |            |             |             |     |
| <220>                |             |            |            |             |             |     |
| <221> misc_feature   |             |            |            |             |             |     |
| <222> (1)...(506)    |             |            |            |             |             |     |
| <223> n = A,T,C or G |             |            |            |             |             |     |
| <400> 15             |             |            |            |             |             |     |
| gaattcggca           | cgagccggcg  | aggaatagga | atcatggcg  | ctgcgtgtt   | cgtgctgctg  | 60  |
| ggattcgcgc           | tgtgggcac   | ccacggagcc | tccggggctg | ccggcacagt  | cttcactacc  | 120 |
| gtagaagacc           | ttggctccaa  | gatactcctc | acctgctct  | tgaatgacag  | cgccacagag  | 180 |
| gtcacaggcg           | accgctggct  | gaagggggc  | gtggtctgta | aggaggacgc  | gctgccccgc  | 240 |

|             |                |             |            |             |              |     |
|-------------|----------------|-------------|------------|-------------|--------------|-----|
| cagaaaacgg  | agttcaaggt     | ggactccgac  | gaccagtggg | gagagtaactc | ctgcgttcc    | 300 |
| ccccccgagc  | ccatggcac      | ggccaacatc  | cagctccacg | ggcctccan   | agtcaaagg    | 360 |
| tgtgaagtgc  | tcaagaacac     | atcaacgagg  | gggagacggc | catgctggc   | tgcaagtca    | 420 |
| agtccgtgcc  | accttgtcac     | ttgactggc   | ctggtacaaa | gatcaactga  | cttttgaagg   | 480 |
| acaaggccct  | tattgaaccg     | gcttcc      |            |             |              | 506 |
| <br>        |                |             |            |             |              |     |
| <210>       | 16             |             |            |             |              |     |
| <211>       | 286            |             |            |             |              |     |
| <212>       | DNA            |             |            |             |              |     |
| <213>       | Homo sapien    |             |            |             |              |     |
| <br>        |                |             |            |             |              |     |
| <400>       | 16             |             |            |             |              |     |
| gaattcggca  | cgagcttta      | aggagaaaat  | gtgacacttg | taaaaaaagct | tgttaagaaaag | 60  |
| cccctccctt  | ttttcttaa      | acctttaaat  | gacaaatcta | ggttaattaag | gttgtgaatt   | 120 |
| tttatttttg  | ctttgttttt     | aatgaacatt  | tgtcttcag  | aataggattt  | tgtgataatg   | 180 |
| tttaatggc   | aaaaacaaaaa    | catgattttg  | tgcaattaac | aaagctactg  | caagaaaaat   | 240 |
| aaaacacttc  | tttgtaacad     | aaaaaaaaaa  | aaaaaaaaaa | ctcgag      |              | 286 |
| <br>        |                |             |            |             |              |     |
| <210>       | 17             |             |            |             |              |     |
| <211>       | 387            |             |            |             |              |     |
| <212>       | DNA            |             |            |             |              |     |
| <213>       | Homo sapien    |             |            |             |              |     |
| <br>        |                |             |            |             |              |     |
| <220>       |                |             |            |             |              |     |
| <221>       | misc_feature   |             |            |             |              |     |
| <222>       | (1)...(387)    |             |            |             |              |     |
| <223>       | n = A,T,C or G |             |            |             |              |     |
| <br>        |                |             |            |             |              |     |
| <400>       | 17             |             |            |             |              |     |
| gaattcggca  | cnaggcaagg     | tgtgcggcg   | ggaaggggca | cgggcacccc  | cgcggcccc    | 60  |
| gggaggctag  | agatcatgga     | agggaagtgg  | ttgctgtga  | tgttacttgt  | gcttggaaact  | 120 |
| gttatttttg  | aggctcatga     | tggacatgtat | gatgatgtga | ttgatattga  | ggatgacctt   | 180 |
| gacgatgtca  | ttgaagaggt     | agaagactca  | aaaccagata | ccactgctcc  | tccttcatct   | 240 |
| cccaagggtt  | cttacaaagc     | tccagttcca  | acaggggaag | tatattttgc  | tgattcttt    | 300 |
| gacagagggaa | ctctgtcagg     | gtggattttt  | tccaaagcca | agaaagacna  | tcccgtatgt   | 360 |
| gaaattgcca  | aatatgatgg     | aaagtgg     |            |             |              | 387 |
| <br>        |                |             |            |             |              |     |
| <210>       | 18             |             |            |             |              |     |
| <211>       | 415            |             |            |             |              |     |
| <212>       | DNA            |             |            |             |              |     |
| <213>       | Homo sapien    |             |            |             |              |     |
| <br>        |                |             |            |             |              |     |
| <400>       | 18             |             |            |             |              |     |
| gaattcggca  | cgagccaaag     | tgagcagtag  | ccaacatgtc | agggtgggag  | tcatattaca   | 60  |
| aaaccgaggg  | cgatgaagaa     | gcagagggaa  | aacaagaaga | gaaccttga   | gcaagtggag   | 120 |
| actataaata  | ttcaggaaga     | gatagttga   | tttttttgtt | tgatgcctcc  | aaggctatgt   | 180 |
| ttgaatctca  | gagtgaagat     | gagttgacac  | cttttgacat | gagcatccag  | tgtatccaaa   | 240 |
| gtgtgtacat  | cagtaagatc     | ataaggactg  | atcgagatct | cttggctgtg  | gtgttctatg   | 300 |
| gtacccgaga  | aagacaaaaaa    | ttcagttgaat | tttaaaaata | tttacgtt    | acaggagctg   | 360 |
| gataatccag  | gtcggaaaacg    | aattctagac  | tttgcagtt  | taagggcag   | caggg        | 415 |
| <br>        |                |             |            |             |              |     |
| <210>       | 19             |             |            |             |              |     |
| <211>       | 466            |             |            |             |              |     |
| <212>       | DNA            |             |            |             |              |     |

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 19

|   |     |
|---|-----|
| gaattcggca cnagcgaaaa tcggtcgcct gagaggtatc accttctctg ggctcaagat   | 60  |
| ggacaacaag aaggccctgg cctacccat catccagttc ctgcattgacc agctccggca   | 120 |
| cggggggcctc tcgtccgatg ctcaggagag cttgaagtgc gccatccagt gcctggagac  | 180 |
| tgcgtttggg gtgacggtag aagacagtga cttgcgcctc cctcagactc tgccggagat   | 240 |
| atttgaagcg gctgcacagg gcaaggagat gccgcaggac ctgaggagcc ccgcgcgaac   | 300 |
| cccgcccttc cgaagaagga ctcancaaga agggcaagaa gccgccttca aaacccgaaa   | 360 |
| ggggaaaaccc aagccagaat gaaaaagttt gaaaaacttt taaaagcttgc cccgtgccat | 420 |
| ttttcttacc gggaaaaaaag cccattcgaa agcttcaaac ccccaa                 | 466 |

<210> 20

<211> 296

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 20

|   |     |
|---|-----|
| gaattcggca cnaggtggtg tgtggctgcg gcctggcaaa gagccgcgc ggaccatgag  | 60  |
| ctgagtaagt tctggaggga tcctgcctct tggagccttc gcagccaggc agctgtgaac | 120 |
| tgtgagctag agtgaagcag aatcttaga agatgagctc caagatgtc ataagtgaac   | 180 |
| caggactgaa ttggatatt tcccccaaaa atggccttaa gacatttttc tctcagaaaa  | 240 |
| ttataaaagat cattccatgg cttccaagtt taaaaagaac ttacgtggtt tttatc    | 296 |

<210> 21

<211> 328

<212> DNA

<213> Homo sapien

<400> 21

|   |     |
|---|-----|
| gaattcggca cgagcccccgctgactggaggac cgagccccca                     | 60  |
| cattttcttt atgtggttgt ggtggggca cagtaatgcc ctgtgcggcc tagcgttcct  | 120 |
| gtggggatgt ggccgggggg cgtcggaaag cgtcactgct tcatgtccga gtcagcgat  | 180 |
| gaagccagcg agccggaact cctgaaccgc agcttgtcca tgtggcacgg gtcgggaca  | 240 |
| caggtcagcg gggaggagct ggtatgtcccc ctggatcttc acacagctgc ttcatggcc | 300 |
| agtatgaagt ggtgaaggaa tgtgtgca                                    | 328 |

<210> 22

<211> 466

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

&lt;222&gt; (1)...(466)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 22

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| gaattcggca | cgagggcgac | taataaaggc | catggcgcca  | gcagaaaatcc | tgaacgggaa | 60  |
| ggagatctcc | gcgcaataa  | ggcgagact  | aaaaaatcaa  | gtcactca    | tgaaggagca | 120 |
| agtacctggt | ttcacaccac | gcctggcaat | attacagggtt | ggcaacagag  | atgattccaa | 180 |
| tcttatata  | aatgtgaagc | tgaaggctgc | tgaagagatt  | gggatcaaag  | ccactcacat | 240 |
| taagttacca | agaacaacca | cagaatctga | ggtgatgaag  | tacattacat  | ctttgaatga | 300 |
| agactctact | gtacatgggt | tcttagtgca | gctaccccaa  | gattcagaga  | attccattaa | 360 |
| cactgaagaa | gtgatcaatg | ctattgcacc | cganaaggat  | gtggatggat  | tgactagcat | 420 |
| caatgctggg | aaacttgcta | gaggtgacct | caatgactgt  | ttcatt      |            | 466 |

&lt;210&gt; 23

&lt;211&gt; 517

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(517)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 23

|             |             |             |             |            |            |     |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| gaattcggca  | cgagcagagg  | tctccagagc  | cttctctctc  | ctgtcaaaa  | tggcaactct | 60  |
| taaggaaaaa  | ctcattgcac  | cagttcgga   | agaagaggca  | acagttccaa | acaataagat | 120 |
| cactgttagtg | ggtgttggac  | aagttgttat  | ggcgtgtgct  | atcagcattc | tggaaagtc  | 180 |
| tctggctgat  | gaacttgctc  | ttgtggatgt  | tttggaaagat | aagcttaaag | gagaatgat  | 240 |
| ggatctgcag  | catggagct   | tatttcttca  | gacacctaaa  | attgtggcag | ataaagatta | 300 |
| ttctgtgacc  | gccaattcta  | agattgttagt | ggtaactgca  | ggagtccgtc | agcaagaagg | 360 |
| ggagagtcgg  | ctcaatctgg  | tgcagagaaa  | tgttaatgta  | ttcaatttca | ttattcctca | 420 |
| gatcgtcaag  | tacagtccctg | attgcatcat  | aattgtggnt  | tccaacccag | tggacattct | 480 |
| tacgtatgtt  | acctggaaac  | taagtggatt  | acccaaa     |            |            | 517 |

&lt;210&gt; 24

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 24

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagggtggc | actatgtggc | gcgtctgtgc | gcgacgggct | cagaatgttag | 60  |
| ccccatgggc | gggactcgag | gctcggtgg  | cgcccttgca | ggaggtaccc | ggaactccac  | 120 |
| gaatgtaccc | gcatctggc  | ccggctcccc | ctcgatcgca | cagcgtgact | acagggatcg  | 180 |
| gcggggtccg | ggcact     |            |            |            |             | 196 |

&lt;210&gt; 25

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(365)

&lt;223&gt; n = A,T,C or G

<210> 29  
<211> 512  
<212> DNA  
<213> Homo sapien

<400> 29

|              |            |             |            |             |            |     |
|--------------|------------|-------------|------------|-------------|------------|-----|
| gaattcggca   | cgagcaacct | tgtaaatgtg  | aaagtacaac | tcgtatttat  | ctctgatgtg | 60  |
| ccgctggctg   | aacttgggt  | tcatttgggg  | tcaaagccag | tttttctttt  | aaaattgaat | 120 |
| tcatttctgat  | gcttggcccc | catacccca   | accttgtcca | gtggagccca  | acttctaaag | 180 |
| gtcaatatat   | catccttgg  | catcccaact  | aacaataaag | agttaggctat | aaggaaagat | 240 |
| tgtcaatatt   | ttgtgttaag | aaaagctaca  | gtcattttt  | cttgcactt   | tggatgctga | 300 |
| aatttttccc   | atggaacata | gccacatcta  | gatagatgtg | agtttttct   | tctgttaaaa | 360 |
| ttattcttaa   | tgtctgtaaa | aacgatttc   | ttctgtagaa | tgttgactt   | cgtattgacc | 420 |
| cttatctgta   | aaacacctat | ttggataat   | atttggaaaa | aaagtaaata  | gcttttcaa  | 480 |
| aatgaaaaaaaa | aaaaaaaaaa | aaaaaaactcg | ag         |             |            | 512 |

<210> 30  
<211> 464  
<212> DNA  
<213> Homo sapien

<400> 30

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagggcagg | tgggcagccc | gcggaccgac | ccctactcg  | cgccgcaact | 60  |
| ccacaaccag | tacggcccca | tgaatatgaa | catgggtatg | aacatggcag | cagccgcggc | 120 |
| ccaccaccac | caccaccacc | accaccaccc | cggtgccctt | ttcccgctat | atgcggcagc | 180 |
| agtcatcaa  | gcaggagcta | atctgcaagt | ggatcgaccc | cgagcaactg | agcaatccca | 240 |
| agaagagctg | caacaaaact | ttcagcacca | tgcacgagct | ggtgacacac | gtctcggtgg | 300 |
| agcacgtcgg | cggccggag  | cagagcaacc | acgtctgctt | ctgggaggag | tgtccgcgcg | 360 |
| agggcaagcc | cttcaaggcc | aaatacaaac | tggtaacca  | catccgcgtg | cacacaggcg | 420 |
| agaaaccctt | cccgtcccc  | ttcccggt   | gtggcaaagt | cttc       |            | 464 |

<210> 31  
<211> 317  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(317)  
<223> n = A,T,C or G

<400> 31

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaattcggca | cgagcagagg | ttagcaagct | ggaacagcaa  | tgccagaagc | agcaggagca | 60  |
| ggctgacagc | cttggacgca | gcctcgaggc | ttagcgggccc | tccgggctg  | agcgggacag | 120 |
| tgtctggag  | actctgcagg | gccagttaga | ggagaaggcc  | cangagctag | ggcacagtca | 180 |
| gaagtgcctt | gcctcgcccc | aacgggagg  | ggctgccttc  | cgcaccaagg | tacaagacca | 240 |
| cagcaaggct | gaagatgagt | ggaaggccca | gttggccgg   | ggccggcaag | aggctganag | 300 |
| aaaaaaatgc | ctcatca    |            |             |            |            | 317 |

<210> 32  
<211> 275  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(275)  
<223> n = A,T,C or G

<400> 32  
gaattcggca cgagcgaagg aggacggagg cttcagacac tcggaagcct ttgaggcact 60  
ccagcaaaag agtcaggac tggactccag gctccagcac gtggaggatg gggtgctctc 120  
catgcaggta gcttctgcgc gccagaccga gagcctggag tccctcctgt ncaagagcca 180  
ggagcacgaa cagcgcctgg cgcgcctgca ggggcgcctg gaaggcctcg ggtcctcata 240  
ggcanaccan gatggcctgc cagcacggtg aggag 275

<210> 33  
<211> 516  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(516)  
<223> n = A,T,C or G

<400> 33  
gaattcggca cgagggggcc tggcggttga ctgtggaaa ctcggaaaca agctcacatc 60  
ttcctgtggg aaaccttcta gcaacaggat gagtctgcag tggactgcag ttgccacatt 120  
cctctatgcg gaggtctttg ttgtgttgc tctctgcatt tccttcattt ctcctaaaag 180  
atggcagaag attttcaagt cecggctgtt ggagttgtta gtgtcctatg gcaacacatt 240  
cttgtgggtt ctcatgtca tccttgcgtt gttggtcata gatgccgtgc gcgaaattcg 300  
gaagtatgtat gatgtgacgg aaaaggtgaa cctccagaac aatcccgggg ccatggagca 360  
cttccacatg aagntttcc gtgcccagag gaatctctac attgctggct tttccttgc 420  
gctgtccttc ctgcttagac gcctgggtgac tctcatttcc aacaggccac gctgctggcc 480  
ttcaatgaac cttaaaaaac aggcggagag tnctat 516

<210> 34  
<211> 446  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(446)  
<223> n = A,T,C or G

<400> 34  
gaattcggca cgagacagaa atgnctaaag aagagaagga ccctggaatg ggtgcaatgg 60  
gtggaatggg aggtggatg ggaggtggca tggttctaact cctagactag tgctttacct 120  
ttattaatga actgtgacag gaagccccaa gcagtgttcc tcccaataac ttcagagaag 180  
tcanttggag aaaatgaaga aaaaggctgg ctgaaaatca ctataaccat cagttactgg 240  
ttcagttga caaaaatatat atggtttac tgctgtcatt gtccatgcct acagataatt 300  
tatTTTGTAT ttttgaataa aaaacattt tacattcctg atactggta caagagccat 360  
gtaccagtgt actgctttca acttaaatca ctgaggcatt tttactacta ttctgttaaa 420  
atcaggattt tagtgcctgc ccccca 446

<400> 25  
 gaattcggca cgagggttggg cgggtctgg ttttcgtcg tcgactgcgg ctcttcctcg 60  
 ggcagcggaa gcggcgcggc ggtcgagaa gtggcctaaa acttcggcgt tgggtgaaag 120  
 aaaatggccc gaaccaaagca gactgctgt aagtccaccg gtggaaagc ccccccggaaa 180  
 cagctggcca cgaaagccgc caggaaaagc gtcctctta ccggcggggt gaagaaggcct 240  
 catcgctaca ggccccggac cgtggcgctt cganagattc gtcgttatca gaagtgcacc 300  
 gagctgctca tccggaagct gcccttccag angttggta gggagatcgc gcaggatttc 360  
 aaaac 365

<210> 26  
<211> 321  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(321)  
<223> n = A,T,C or G

<400> 26  
 ctcgagtttt tttttttttt tttttttgtt cggaaatggct aagtttattt aacatctcg 60  
 atattcatct ggatattggg ttgttttgtt gatacaatac atattcacct taactggtgc 120  
 tactgcaag aaagctttct tgacctgcat gacgtgcctc anagcttctc tccaccaatt 180  
 ggaaccaccc aaagcctagt ctanaccaaa gtgctctgga gaaaaaaaaac aaaacaaaaaa 240  
 aacagcaaac agaaaaacagt tgtgccccca aaagtactca gaagtcatat gttatttaca 300  
 attgggtttt tgtggatgg g 321

<210> 27  
<211> 454  
<212> DNA  
<213> Homo sapien

<400> 27  
 gaattcggca cgagcaagga tgaggagaac aatcccattt agacagaata tggcctttat 60  
 gtctacaagg atcaccagac catcaccatc caggagatgc cggagaaggc cccagccggc 120  
 cagctccccc gctctgtgga cgtcattctg gatgatgact ttgtggataa agcgaaggcct 180  
 ggtgaccggg ttcaagggtt gggaaacctac cgttgcctc ctggaaagaa gggaggctac 240  
 acctctggga ctttcaggac tgcctgttattt gcctgtatg ttaagcagat gagcaaagga 300  
 tgctcagccc tctttctctg ctgaggatat agccaagatc aagaagttca gtaaaaccccg 360  
 atccaaggat atcttgacc atctggccaa gtcattggcc ccaagtatcc atggcatga 420  
 ctatgtcaag aaagcaatcc tctgtttgtt cttg 454

<210> 28  
<211> 285  
<212> DNA  
<213> Homo sapien

<400> 28  
 gaattcggca cgagggttggt ctgaaattca tgcaagcttc cgaagatctt ctcaaggaac 60  
 actacgttga cctgaaggac cgtccattct ttgcggcctt ggtgaaatac atgcactcag 120  
 ggccggtagt tgccatggtc tgggaggggc tgaatgtggt gaaaacgggc cgagtcatgc 180  
 tcggggagac caaccctgca gactccaagc ctgggaccat ccgtggagac ttctgcatac 240  
 aagttggcag gaacattata catggcagtg attctgtgga gagtg 285

<210> 35  
<211> 440  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(440)  
<223> n = A,T,C or G

<400> 35

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgaggttat  | ttgtccccac | cagaaggttg | gggtggcg   | gcctagaaca  | 60  |
| cagcgtgcgg | cgggtcccg  | gtggagcca  | gcgcagacag | cgtgggtccc | tgcggctt    | 120 |
| angcgaaggt | ggagttgttc | cancccacat | tggcccgct  | ticattgtcg | taatagtta   | 180 |
| ttagaacct  | gtccgggctg | atgcgcaggc | gctctgccag | caggccgcac | agcaagcttgc | 240 |
| ttagggagcg | gttctgcgcg | ccgcccgt   | tgccatgtct | gtgcangctg | canagcgcgc  | 300 |
| acggctcgct | ggagccgccc | aaggccatga | gctggtccgg | gaccacgtgc | accgctatgt  | 360 |
| actggggggg | cttgcgggt  | gcctgcgc   | nctgctgggt | gagctcggag | aggaaccgtc  | 420 |
| cggcacggag | gcgcggggca |            |            |            |             | 440 |

<210> 36  
<211> 373  
<212> DNA  
<213> Homo sapien

<400> 36

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| gaattcggca  | cgaggccaaa  | cgtaccaaga | aagtccggat | cgtcgtaaa   | tacggaccc  | 60  |
| gtatggggc   | ctccctccgg  | aaaatggta  | agaaaattga | aatcagccag  | cacgccaagt | 120 |
| acacttgc    | tttctgtggc  | aaaaccaaga | tgaagagacg | agctgtgggg  | atctggcact | 180 |
| gtggttcctg  | catgaagaca  | gtggctggc  | gtgcctggac | gtacaatacc  | acttccgtg  | 240 |
| tcacggtaaa  | gtccggccatc | agaagactga | aggagttgaa | agaccagtag  | acgctccct  | 300 |
| actctttgag  | acatcaactgg | cctataataa | atgggttaat | ttatgttaaca | aaaaaaaaaa | 360 |
| aaaaaaaactc | gag         |            |            |             |            | 373 |

<210> 37  
<211> 565  
<212> DNA  
<213> Homo sapien

<400> 37

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| gaattcggca  | cgagggggca | cggcacccc   | cgcgtcccc  | gggaggctag | agatcatgga  | 60  |
| agggaaagtgg | ttgctgtgt  | ttgtacttgt  | gttggaaact | gttattgtt  | aggctcatga  | 120 |
| tggacatgt   | gtatgtgt   | ttgatattgt  | ggatgacctt | gacgatgtca | ttgaagaggt  | 180 |
| agaagactca  | aaaccagata | ccactgctcc  | tccttcatct | cccaagggtt | ttacaaagc   | 240 |
| tccagttcca  | acagggaaag | tatattttgc  | tgattctttt | gacagaggaa | ctctgtcagg  | 300 |
| gtggatttta  | tccaaagcca | agaaagacga  | taccgatgt  | gaaattgcca | aatatgtatgg | 360 |
| aaagtggaa   | gtagaggaaa | tgaaggagtc  | aaagcttcca | ggtgataaag | gacttgtt    | 420 |
| gtatgtctcg  | ccaaagcatc | atgcctatctc | tgctaaactg | aacaaggcct | tcctgtttga  | 480 |
| caccaagct   | ctttgttca  | gtatgaggtt  | aatttccaaa | atggaataga | atgtgggt    | 540 |
| gcctatgtga  | aactgtttc  | taaaa       |            |            |             | 565 |

<210> 38  
<211> 566  
<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(566)

<223> n = A,T,C or G

<400> 38

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gaattcggca  | cgagccaaac | ttagccagg  | aagatcagca  | ggacacccag | atttatgaga | 60  |
| agcatgacaa  | ccttctacat | gggaccaaga | agaaaaaagga | gaagatggtg | agtgcagcat | 120 |
| tcatgaagaa  | gtacatccat | gtggccaaaa | tcatcaagcc  | tgtcctgaca | caggagtccg | 180 |
| ccacctacat  | tgcagaagag | tattcacgcc | tgcgcagcca  | ggatagcatg | agctcagaca | 240 |
| ccgccaggac  | atctccagtt | acagcccgaa | cactggaaac  | tctgattcga | ctggccacag | 300 |
| cccatgcgaa  | ggcccgcatg | agcaagactg | tggacctgca  | ggatgcagag | gaagctgtgg | 360 |
| agtttgtcca  | gtatgttac  | ttaagaagg  | ttctggagaa  | ggagaagaaa | cgtaagaagc | 420 |
| gaagtgagga  | tgaatcagag | acagaagatg | aagaggagaa  | aagccaagag | gaccaggagc | 480 |
| agaagagggaa | gagaaggaag | actcgccagc | cagatgccaa  | agatggggat | tcatacgacc | 540 |
| cctatgactt  | cagtgacaca | gaggan     |             |            |            | 566 |

<210> 39

<211> 364

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(364)

<223> n = A,T,C or G

<400> 39

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgaggtctca | cagaaagttc | tccgctccca | gacatgggtc | cctcggttc  | 60  |
| ctgcctcgga  | agcgcagcag | caggcatcg  | gggaaggtga | agagcttccc | taaggatgac | 120 |
| ccgtccaagc  | cggtccacct | cacagccttc | ctggataca  | aggctggcat | gactcacatc | 180 |
| gtgcgggaag  | tcgacaggcc | gggatccaag | gtgaacaaga | aggaggttgt | ggaggctgtg | 240 |
| accattgttag | agacaccacc | catggtggtt | gtggcattg  | tggctacgt  | ggaaaccct  | 300 |
| ngaggcctcc  | ggacctttaa | gactgtctt  | gcttgagcac | atcantgatg | aatgcaagag | 360 |
| gcgt        |            |            |            |            |            | 364 |

<210> 40

<211> 336

<212> DNA

<213> Homo sapien

<400> 40

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaattcggca | cgagcccaga | tctcctaccc | agcctccag   | ggggcctact | acatccctgg | 60  |
| acagggcgt  | tccacatacg | ttgtccccac | acagcagtagc | cctgtgcagc | caggagcccc | 120 |
| aggcttctat | ccaggtgcaa | gccctacaga | atttgggacc  | tacgctggcg | cctactatcc | 180 |
| agcccaaggg | gtgcagcagt | ttcccactgg | cgtggccccc  | gccccagttt | tgatgaacca | 240 |
| gcccacccag | attgctccca | agagggagcg | taagacgatc  | cgaattcgag | atccaaacca | 300 |
| aggaggaaag | gatatcacag | aggagatcat | gtctgg      |            |            | 336 |

<210> 41

<211> 566

<212> DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 41

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| gaattcggca  | cgagacttgg  | gaaaatgaat | tcagaggagg | aagatgaagt  | gtggcaggta | 60  |
| atcatagggag | ccagagctga  | gatgacttca | aaacaccaag | agtacttcaa  | gctggaaacc | 120 |
| acttggatga  | ctgcagttgg  | tcttcagag  | atggcagcag | aagctgcata  | tcaaactggc | 180 |
| gcagatcagg  | cctctataac  | cgccaggaat | cacattcago | tggtgaact   | gcaggtggaa | 240 |
| gaggtgcacc  | agctctcccg  | gaaagcagaa | accaagctgg | cagaagcaca  | gatagaagag | 300 |
| ctccgtcaga  | aaacacagga  | ggaaggggag | gagcgggctg | agtccggagca | ggaggcctac | 360 |
| ctgcgtgagg  | attgagggcc  | tgagcacact | gccctgtctc | cccactca    | ggggaaagca | 420 |
| ggggcagatg  | ccaccctgccc | cagggttggc | atgactgtct | gtgcaccggag | aagaggcggc | 480 |
| agtcctgccc  | ctgccaatca  | ggcgagacgc | ctttgtgagc | tgtgagtggcc | tcctgtggcc | 540 |
| tcaggcttgc  | gcttggacct  | ggttct     |            |             |            | 566 |

&lt;210&gt; 42

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 42

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgagggcagc | tcgagtccac | cagcagcgcc | gtccgcttga | ccgagatgct | 60  |
| gcgggcctgt  | cagttatcg  | gtgtgaccgc | cgccgcccag | agttgtctct | gtgggaagtt | 120 |
| tgtcctccgt  | ccattgcac  | catgccgcag | atactctact | tcaggcagct | ctgggttgac | 180 |
| tactggcaaa  | attgctggag | ctggccttt  | gtttgttgg  | ggaggtattt | gtggcactat | 240 |
| cctatatgccc | aatatggatt | cccatttccg | ggaaagtgt  | gagaaaacca | taccttactc | 300 |
| agacaaaactc | ttcgagatgg | ttcttggtcc | tgcagcttat | aatgttccat | tgccaaagaa | 360 |
| atcgattcaa  | gtcggtccaa | ctaaaa     |            |            |            | 386 |

&lt;210&gt; 43

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 43

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gaattcggca  | cgagggcaaa | acctccac   | cctgatgaat | ttcttgactg  | tttccaaaag | 60  |
| tttaaacacg  | gatttaacct | tctggccaaa | ctgaagtctc | atattcagaa  | tcctagtgt  | 120 |
| gcagattttgg | ttcacttttt | gtttactcca | ttaaatatgg | tggtgcaggc  | aacaggaggt | 180 |
| cctgaacttag | ccagttca   | acttagtccc | ctattgaata | aggacacaat  | tgatttctt  | 240 |
| aattatactg  | tcaatggtga | tgaacggcag | ctgtggatgt | cattgggagg  | aacttggatg | 300 |
| aaagccagag  | cagagtggcc | aaaagaacag | tttattccac | catatgttcc  | acgattccgc | 360 |
| aatggctggg  | agccccaaat | gctgaacttt | atgggagcc  | caatggaaaca | agatctttat | 420 |
| caactggcag  | aatctgtggc | aatgttagca | gaacatcago | gcaaacagga  | aataaaaaga | 480 |
| ttatcccaga  | gcatttcagt | gtatcagaat | atta       |             |            | 514 |

&lt;210&gt; 44

&lt;211&gt; 467

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 44

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagactaga | gccgcac    | atgggactt  | ctgcaaatac | agagactcg  | 60  |
| attaaaggta | gagaagatgg | agctaaagg  | actgcttatt | taatacattt | gaacaacttt | 120 |
| tgggtactt  | agaagtgct  | ttgaaacctg | cattgatta  | agcaagaatt | cgcttgcaag | 180 |
| ttaaggggca | ctccacagaa | ggatgttatt | atcaagtca  | atgcaccgg  | cactttgtt  | 240 |

|  |     |
|--|-----|
| ttggagaaaac atgcagatta tatcgcatcc tatggctcaa agaaagatga ttatgaatac | 300 |
| tgtatgtctg agtatttgag aatgagtggc atctattggg gtctgacagt aatggatctc  | 360 |
| atgggacaac ttcatcgcat gaatagagaa gagattctgg catttattaa gtcttgccaa  | 420 |
| catgaatgtg gtggaaaaag tgcttagtac ggacatgatc ctcatct                | 467 |
| <br>   |     |
| <210> 45   |     |
| <211> 344  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(344)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 45   |     |
| gaattcggca cgaggggagac tggaggaaga gctccgccag ctgaagtccg attcccacgg | 60  |
| gccgaaggag gacggaggct tcagacactc ggaagcctt gaggcactcc agcaaaaagag  | 120 |
| tcagggactg gactccaggc tccagcacgt ggagatggg gtgctctcca tgcaagtggc   | 180 |
| ttctgcgcgc cagaccgaga gcctggagtc cctcctgtcc aagaaccagg aacacgagca  | 240 |
| gcgcctggcc gcctgcaggc gcgcctggaa agcctcggtt cctcagaagc agaccangat  | 300 |
| gcgcctgccag cacngtgagg agcctggcg agaccagct ggtg                    | 344 |
| <br>   |     |
| <210> 46   |     |
| <211> 303  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(303)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 46   |     |
| gaattcggca cgagnggaa cacaagtatg tgccaccaca cttggtaac tttaaattt     | 60  |
| tttttagata tgaggtctga ccatgttgc catgccatta ttattcctt tgataaaggt    | 120 |
| gaatttaggc taaactgtga aagaatgtac agcaaatggc tctgttaatt cttctcatag  | 180 |
| gaggacaggt tactgttaat agagaacata tgtatgtaa ggctaaaaat agggcagtag   | 240 |
| aaaaggaatg taacttctca ctcctttaa gaatgnaaag aaagaaagaa aaaaggatgg   | 300 |
| tac  | 303 |
| <br>   |     |
| <210> 47   |     |
| <211> 364  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(364)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 47   |     |
| gaattcggca cgaganatag ttcctttctc taaagtggat gaggaacaaa taaaatataa  | 60  |
| atcgagggg aagtgttttctt ctgttttggg attttgtaaa tcttctcagg ttcagagaag | 120 |

|  |  |
|--|--|
| atcttcatg ggaaatcaag ttctaaaggc cttgcagca agagatgatg aggtagtgc<br>agttgcactt tcctccctga ttcatgctt ggatgactta gacatggtg ccatagttcg<br>atatgcattat gacaaaagag ctaatccta agtggcggtg gctttccctc atatcaagca<br>taactatgag tgtagtgcagct gccttcatg gaagacttgc ggcaatacat<br>gttt  | 180<br>240<br>300<br>360<br>364              |
| <br>   |  |
| <210> 48   |  |
| <211> 284  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <220>  |  |
| <221> misc_feature   |  |
| <222> (1)...(284)  |  |
| <223> n = A,T,C or G   |  |
| <br>   |  |
| <400> 48   |  |
| gaattcggca cgagagcagc tggaggcact ggagaaggag aaggctgcc agctggagat<br>tctgcagcag caacttcagg tggctaatga agcccggac agtgcggcaga cctcagtgcac<br>acaggccccag cgggagaagg cagagctgag ccggaaagggtg gaggaactcc aggccctgtgt<br>tgagacagcc cgccaggaac agcatgagggc ccaggccccag gttgcagagc tagagttgca<br>gctgcggctc gagcagcaaa aagcaactga ganagaaagg gtgg   | 60<br>120<br>180<br>240<br>284               |
| <br>   |  |
| <210> 49   |  |
| <211> 313  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <220>  |  |
| <221> misc_feature   |  |
| <222> (1)...(313)  |  |
| <223> n = A,T,C or G   |  |
| <br>   |  |
| <400> 49   |  |
| gaattcggca cgaggtttat tatacgctcat acctggacc gattaagggtg tcaacatttt<br>aaaattactc aagatattaa ccagaaaaga tgattatggc cttaaaaact attggacaaa<br>ctgatgctat ttaacattgt tcacagccat ttaatttgaa taacaaattt tagattctaa<br>gtaggccata acttccttgc aaaacaattt atttataaag gtacagtttc agaaggnaac<br>agcatgagac tagtcttcct ataggcacat tttagtagac tgctcttc atccctggtc<br>aaggagcttc tct   | 60<br>120<br>180<br>240<br>300<br>313        |
| <br>   |  |
| <210> 50   |  |
| <211> 522  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 50   |  |
| gaattcggca cgaggcacag ccaacaaaag cagcttcttg aagttcaact tcagcaaaat<br>aaggagctgg aaaataaata tgctaaattt gaagaaaagc tgaaggaatc tgaggaagca<br>aatgaggatc tgcggaggc ctttaatgcc ctacaagaag agaaacaaga tttatctaaa<br>gagattgaga gtttggaaagt atctatatcc cagctaacaa gacaagtaac agccttgcaa<br>gaagaaggtt ctttaggact ctatcatgcc cagttaaaag taaaagaaga agaggtacac<br>agtttaagtgtt ctttgggttc ctcctctcaa aagagaattt cagaacttgg agaagaattt<br>gtttgttttc aaaaggaaagc tgccaagaag gtaggtgaaa ttgaagataa actgaagaaa | 60<br>120<br>180<br>240<br>300<br>360<br>420 |

|  |     |
|--|-----|
| gaattaaaggc atcttcatca tgatgcaggg ataatgagaa atgaaaactga aacagcagaa  | 480 |
| gagagagtgg cagagctagc aagagatgg gtggagatgg aa                        | 522 |
| <br>   |     |
| <210> 51   |     |
| <211> 463  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(463)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 51   |     |
| gaattcggca cgaggagcac ttccggctcct cgcgcgtcg cgtcccctcg tgcgggctcc    | 60  |
| agccgcagcc tttagcttcgg ctcccggtt gggtggcgcg gccgtgcctt cggtttggcc    | 120 |
| tccgaacgcg gctcgaaatgg caagccaaaa ttccctccgg atagaataatg atacctttgg  | 180 |
| tgaactaaag gtgccaatgg ataagtatta tggcgccccag accgtgagat ctacgatgaa   | 240 |
| ctttaagatt ggaggtgtga cagaacgcatt gccaacccca gttattaaag cttttggcat   | 300 |
| cttgaagcga gcggccgctg aagtaaacca ggattatggt cttgatccaa agattgctan    | 360 |
| tgcataataatg aaggcagcag angaggttagc tgaaggtaaa ttaaatgatc attttcctct | 420 |
| cgtggtatgg cagactggat caggaactca gacaatatg aat                       | 463 |
| <br>   |     |
| <210> 52   |     |
| <211> 423  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(423)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 52   |     |
| gaattcggca cgagaaaagcg cagccgagcc cagcgccccg cactttctg agcagacgtc    | 60  |
| cagagcagag tcagccagca tgaccgagcg ccgcgtcccc ttctcgctcc tgcggggccc    | 120 |
| cagctggac cccttcccg actggtagcc gcatagccgc ctcttcgacc aggcttcgg       | 180 |
| gctgccccgg ctgccccggagg agtggtagc gtggtaggc ggcagcagct ggccaggcta    | 240 |
| cgtgcgcccc ctgccccccg cgcgcattcga gagccccgca gtggccgcgc cgcctacag    | 300 |
| ccgcgcgctc agccggcaac tcagcagcgg ggtctcgag atccggcaca ctgcggaccg     | 360 |
| ctggcgctgt tccctggatg tcaaccactt cgccccggac gagctgacgg tcaagaccaa    | 420 |
| nga  | 423 |
| <br>   |     |
| <210> 53   |     |
| <211> 474  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(474)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 53   |     |

|                      |             |             |             |             |             |     |
|----------------------|-------------|-------------|-------------|-------------|-------------|-----|
| gaattcggca           | cgaggaaatc  | tctacattgc  | tggctttcc   | ttgctgctgt  | ccttcctgtc  | 60  |
| tagacgcctg           | gtgactctca  | tttgcagca   | ggccacgctg  | ctggcctcca  | atgaagcctt  | 120 |
| taaaaagcac           | gcggagagtgc | ctagtgggc   | ggccaagang  | tacatggagg  | agaatgacca  | 180 |
| gctcaagaan           | ggagctgctg  | ttgacggagg  | caagttggat  | gtcgaaaatg  | ctgagggtgaa | 240 |
| gttggaggaa           | gagaacagga  | gcctgaaggc  | tgacctgcag  | aagctaaagg  | acgagctggc  | 300 |
| cagcactaag           | caaaaactag  | agaaagctga  | aaaccagggtt | ctggccatgc  | ggaagcagtc  | 360 |
| tgagggcctc           | accaaggagt  | acgaccgctt  | gctggaggag  | cacgcaaagc  | tgcaggctgc  | 420 |
| agtagatggt           | cccattggaca | agaaggaaga  | gtaaggccct  | tccttcctcc  | cctg        | 474 |
| <210> 54             |             |             |             |             |             |     |
| <211> 473            |             |             |             |             |             |     |
| <212> DNA            |             |             |             |             |             |     |
| <213> Homo sapien    |             |             |             |             |             |     |
| <400> 54             |             |             |             |             |             |     |
| gaattcggca           | cgagctcggt  | ccgaatcggt  | acgagggtac  | ggtcgcctga  | gaggtatcac  | 60  |
| ctcttctggg           | ctcaagatgg  | acaacaagaa  | gcccgcggcc  | tacgcctatca | tccagttcct  | 120 |
| gcatgaccag           | ctccggcactg | ggggcctctc  | gtccgatgct  | caggagact   | tggaagtcgc  | 180 |
| catccagtgc           | ctggagactg  | cgtttgggtt  | gacggtagaa  | gacagtgacc  | ttgcgcctccc | 240 |
| tcagactctg           | ccggagatata | ttgaagcggt  | tgccacgggc  | aaggagatgc  | cgcaggacct  | 300 |
| gaggagccca           | gcccgaaccc  | cgccttccga  | ggaggactca  | gcagaggcag  | agcgcctcaa  | 360 |
| aaccgaagga           | aacgagcaga  | tgaaagtgg   | aaactttgaa  | gctgcgtgc   | atttctacgg  | 420 |
| aaaaggccatc          | gagctcaacc  | cagccaaacgc | cgtctatttc  | tgcaacagaa  | gcc         | 473 |
| <210> 55             |             |             |             |             |             |     |
| <211> 365            |             |             |             |             |             |     |
| <212> DNA            |             |             |             |             |             |     |
| <213> Homo sapien    |             |             |             |             |             |     |
| <220>                |             |             |             |             |             |     |
| <221> misc_feature   |             |             |             |             |             |     |
| <222> (1)...(365)    |             |             |             |             |             |     |
| <223> n = A,T,C or G |             |             |             |             |             |     |
| <400> 55             |             |             |             |             |             |     |
| gaattcggca           | cgagtgattt  | aggatcagg   | gggtgccaga  | cactctctta  | ggtgtcagag  | 60  |
| ctccagttt            | cattacacag  | ataaggtccc  | tgccccccag  | cgaagctggc  | attaaagtca  | 120 |
| gcaaataaat           | gttcaggatt  | ttgataagtg  | ctgttaagga  | aaaaagacct  | gtaacagggt  | 180 |
| ggaatgactg           | gggagggggc  | gaggcttat   | ctaggcaggg  | atggaccaga  | cntgagagt   | 240 |
| accaggaggt           | tcgagccagt  | tgcagaggga  | caagaaaggc  | cttctggca   | ggggcactta  | 300 |
| caggtacaga           | gcccctgcag  | cagaataagc  | ttctcctacc  | ggagaggcaa  | aaagaaggcc  | 360 |
| tttttgc              |             |             |             |             |             | 365 |
| <210> 56             |             |             |             |             |             |     |
| <211> 517            |             |             |             |             |             |     |
| <212> DNA            |             |             |             |             |             |     |
| <213> Homo sapien    |             |             |             |             |             |     |
| <400> 56             |             |             |             |             |             |     |
| gaattcggca           | cgagggacgc  | cgctttgttg  | cctgagatga  | agttggagcc  | cttgggggg   | 60  |
| acattggatc           | ctatactgtg  | agagctgggt  | atgctggta   | ggactgcccc  | aaggtggatt  | 120 |
| ttcctacagc           | tattgtatg   | gtggtagaaa  | gagatgacgg  | aagcacatta  | atggaaatag  | 180 |
| atggcgataa           | aggcaacaa   | ggcgggtccca | cctactacat  | agataactaat | gcttcgtgc   | 240 |
| ttcccgaggaa          | aatatggag   | gccatttcac  | ctctaaaaaa  | tggatggtt   | gaagactggg  | 300 |

|  |     |
|--|-----|
| atagtttcca agctattttg gatcataacct acaaaatgca tgtcaaatca gaaggccagtc  | 360 |
| tccatcctgt tctcatgtca gaggcacgtt ggaatactag agcaaagaga gagaaactga    | 420 |
| cagagttaat gtttgaacac tacaacatcc ctgccttctt ccttgcaaa actgcagttt     | 480 |
| tgacagcatt tgctaattggt ccgttctact gggcttg                            | 517 |
| <br>   |     |
| <210> 57   |     |
| <211> 237  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 57   |     |
| gaattcggca cgagctatga gatagtatta agcaattaaa agaatataatg acttttctac   | 60  |
| atcaaaattt gaaacttctg tgcataaag gacacaatca acagagtgaa gagggaaactt    | 120 |
| acagaatggg agaaaatatt tgtaaatcat gtatctcata aggattaata tccaggctat    | 180 |
| gtaaaagaact acatctcaac acaaaaacac aaacagctt gttttttttt gggcaaa       | 237 |
| <br>   |     |
| <210> 58   |     |
| <211> 485  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 58   |     |
| gaattcggca cgagcgcggc ggtcactgcg ccgggttagt gggccccagt gttgcgtct     | 60  |
| ctggccgttc cttacacttt gttcaggct ccaggcagg ggcgttagtgg gatatggcca     | 120 |
| actcgggctg caaggacgtc acgggtccag atgaggagag ttttctgtac tttgcctacg    | 180 |
| gcagcaacct gctgacagag aggatccacc tccgaaaaccc ctggcgccg 60            | 240 |
| tggcccgct gcaggatttt aagtttact ttggcaattt ccaaggcaaa acaagtcaaa      | 300 |
| cttggcatgg agggatagcc accatttttcc agagtcctgg cgtatgaatg tggggagtag   | 360 |
| tatggaaaat gaacaaaagc aattttaaatt ctctggatga gcaagaagggtt gttttttttt | 420 |
| gaaatgtatg ttgttaataga agttttttttt tgccaacttc aagaaaggaa aaaaaaaaata | 480 |
| acctg  | 485 |
| <br>   |     |
| <210> 59   |     |
| <211> 514  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 59   |     |
| gaattcggca cgagtggcgt tggaggtcgg cgatatggaa gatgggcagc tttccgactc    | 60  |
| ggattccgac atgacggcgtc cacccagcga caggccgtg caattgcacaa aagtgcgttgg  | 120 |
| tggcgacagt gctatgaggg cttccagaa cacggcaact gcatgtgcac cagtatcaca     | 180 |
| ttatcgagct gttgaaatgt tggattcaag tgaagaaatgt ttttctgtt cagatgtatgt   | 240 |
| tagctgtctt tggaaacgc aacgacagaa atgttttac cttccccc aaccagagcc        | 300 |
| ttttcagttt ggccagagca gtcagaaacc acctgttgct ggaggaaaga agattaacaa    | 360 |
| catatgggt gctgtgtgc aggaacagaa tcaagatgca gtggccactg aacttggat       | 420 |
| tttggaaatg gagggcacta ttgacacaag cagacaatcc gagacactaca attatttgct   | 480 |
| tgccaagaaa ctttaggaagg aatctcaaga gcat                               | 514 |
| <br>   |     |
| <210> 60   |     |
| <211> 336  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |

<221> misc\_feature  
<222> (1)...(336)  
<223> n = A,T,C or G

<400> 60

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gaattcggca | cgagggccgc | gggtgctgg  | caccggggca | ggcaaaggta  | tagggcg    | 60  |
| cacggtccag | gcgctgcacg | cgacgggcgc | gcgggtgg   | gctgtgagcc  | ggactcaggc | 120 |
| ggatcttgc  | agccttgtcc | cgagtgccc  | ggggatagaa | ccctgtg     | tggacctgg  | 180 |
| tgactggag  | gccaccgagc | ggcgctgg   | cagcgtggc  | cccggtggacc | tgctggtaa  | 240 |
| caacccgc   | gtgccttc   | tgcagccctt | nctggagg   | accaaggagg  | ccttgacag  | 300 |
| atcctttgag | gtgaacctgc | gtgcgg     | cat ccaggt |             |            | 336 |

<210> 61  
<211> 515  
<212> DNA  
<213> Homo sapien

<400> 61

|            |            |            |            |            |               |     |
|------------|------------|------------|------------|------------|---------------|-----|
| gaattcggca | cgaggtcgcc | tgagaggtat | cacctttct  | gggctcaaga | tggacaacaa    | 60  |
| gaagcgcc   | tcatccagg  | cctgc      | catgac     | cagctccg   | acggggcct     | 120 |
| ctcgccat   | gctcaggaga | gcttgg     | gaat       | cgccatcc   | tgcctggaga    | 180 |
| ggtagcggt  | gaagacagt  | accttgc    | ccctc      | actgtccgg  | gaga tatttga  | 240 |
| ggctgccac  | ggcaaggaga | tgccgc     | aggaga     | ccagcgc    | gaa ccccgc    | 300 |
| cgaggaggac | tcagcagagg | cagagcgc   | ctaaaaccg  | gaaacg     | agatgaaagt    | 360 |
| ggaaaactt  | gaagctgccc | tgcatttcta | cgaaaaagcc | atcgagct   | ca acccagccaa | 420 |
| cgccgtctat | ttctgaaca  | gagccgc    | cagctac    | ctcggca    | act acgcaggc  | 480 |
| ggtagcggt  | tgtgagcgg  | ccatctgc   | cat tgacc  |            |               | 515 |

<210> 62  
<211> 417  
<212> DNA  
<213> Homo sapien

<400> 62

|            |            |            |             |           |                 |     |
|------------|------------|------------|-------------|-----------|-----------------|-----|
| gaattcggca | cgagagccaa | cctcctggaa | ggcacgcgc   | gtgctgagg | gtaccattca      | 60  |
| gccaagccaa | tgatcaaatt | ccaatcaccc | tatgaggaac  | agttggaa  | aca gcagagact   | 120 |
| gcagtgc    | aggtgagga  | gcccagc    | ctgcgg      | accagga   | agc tttgcacc    | 180 |
| cagaggct   | agggcactt  | actacggc   | caggAACAGC  | agcagc    | ggtggcaaga      | 240 |
| gagatggcc  | tgcagagg   | gcgtgag    | ttt gaggagg | ggccgc    | ccaggagc        | 300 |
| ctccggc    | aagctatta  | tatgtctat  | gataatgata  | tgc       | ttcagg agcagagg | 360 |
| caggaa     | atcc       | aggag      | aggat gaa   | accagc    | acca agatgaa    | 417 |

<210> 63  
<211> 455  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(455)  
<223> n = A,T,C or G

<400> 63

|            |            |           |            |           |           |    |
|------------|------------|-----------|------------|-----------|-----------|----|
| gaattcggca | cgagggccgg | gcttggctg | cgtggagaat | actttttgc | atgcctact | 60 |
|------------|------------|-----------|------------|-----------|-----------|----|

|  |     |
|--|-----|
| gagactttga ttcgaagccc agttggcccg accaggtgga ggaggagggg gaggacgaca    | 120 |
| aatgtgtcac cagcgcac ctcagggga tccctctggc cacaggtgac accagccag        | 180 |
| agccaganct actgcggga gctccactgc cgccctccaa ggaggtcatc aacggaaaca     | 240 |
| taaagacagt gacagagtac aagatagatg aggatggcaa gaagttcaag attgtccgca    | 300 |
| ccttcaggat tgagaccggg aaggcttcaa aggctgtcgc aaggaggaag aacttggaga    | 360 |
| agttcggaa ctcagagttt gaccccccgg gacccaatgt gcccaccacc actgtcagtg     | 420 |
| acgatgtctc tatgacgttc atcaccagca aagag                               | 455 |
| <br>   |     |
| <210> 64   |     |
| <211> 517  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 64   |     |
| gaattcggca cgagccatgt tggggtttgt gggtcgggtg gccgctgctc cggcctccgg    | 60  |
| ggccttgcgg agactcaccc cttcagcgtc gctgccccca gctcagctct tactgcgggc    | 120 |
| cgctccgacg gcggtccatc ctgtcaggga ctatcgccgc caaacatctc cttcgccaaa    | 180 |
| agcaggcgcc gccacccggc gcacatgtgc ggtcattggc gcagtgggtg acgtccagtt    | 240 |
| tgtatgaggga ctaccaccaa ttctaaatgc cctggaaatgtg caaggcaggg agaccagact | 300 |
| ggttttggag gtggcccaagc atttgggtga gacacagta aggactatgg ctatggatgg    | 360 |
| tacagaaggc ttggtagag gccagaaagt actggattct ggtgcaccaa tcaaaattcc     | 420 |
| tgttggcctt gagactttgg gcagaatcat gaatgtcatt ggagaaccata ttgatgaaag   | 480 |
| aggtcccatc aaaaccaaac aatttgcattc cattcat                            | 517 |
| <br>   |     |
| <210> 65   |     |
| <211> 519  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 65   |     |
| gaattcggca cgagtggagg tcggcgatat ggaagatggg cagcttccg actcgattc      | 60  |
| cgacatgacg gtgcacccca gcgcacaggcc gctgcaattt caaaaatgtc tagtggcga    | 120 |
| cagtgttatg agggccttcc agaacacggc aactgcatttgc gacccatgtt cacattatcg  | 180 |
| actgtttgaa agtgtggattt caagtgaaga aagtttttctt gattcagatg atgatagctg  | 240 |
| tctttggaaa cgcaaaacgac agaaatgtt taacccttcc cccaaaccag agccctttca    | 300 |
| gtttggccag agcagtcaga aaccacctgt tgctggagga aagaagatata acaacatatg   | 360 |
| gggtgtgttg ctgcaggaac agaatcaaga tgcagtggcc actgaacttg gtatcttggg    | 420 |
| aatggagggc actattgaca gaagcagaca atccgagacc tacaattatt tgcttgccaa    | 480 |
| gaaacttagg aaggaatctc aagacattc caaaagatc                            | 519 |
| <br>   |     |
| <210> 66   |     |
| <211> 517  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(517)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 66   |     |
| gaattcggca cgagggcgcc tgagggaaagc aggaggaggt ggcggcgccg ggaagatggc   | 60  |
| tccttcacctt accaaacgca aagaccgctc agatgagaag tccaaaggatc gctaaaaaga  | 120 |
| taaaggggcc accaaggagt cgagtggaaa ggatcgccgc cgggacaaaa cccgaaagag    | 180 |

|  |  |
|--|--|
| gcgcagcgct tccagtggta gcagcagtac caggctcggt tccagctcgat cttccagtc<br>aggctccagc accagactg gctcaagcgag tggctccagc ttttcctcgat catccagccg<br>ctcaggaaagc tccagcacct cccgcagctc cagctcttagt agcttttctg gctctccaag<br>tcttctcggt cgcanacacg acaacaggag ggcgtcccgcc tccaaatcca aaccaccta<br>aagagatgaa aaggagagga aaaggcgagg cccatctctt aagcccacca aagtgcacat<br>tggagactc acccgaatg tgacaaagga tcacatc   | 240<br>300<br>360<br>420<br>480<br>517                     |
| <210> 67   |  |
| <211> 517  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <220>  |  |
| <221> misc_feature   |  |
| <222> (1)...(517)  |  |
| <223> n = A,T,C or G   |  |
| <400> 67   |  |
| gaattcggca cgaggcgccg tgcagcggtt gaggtnnngc ggcggcgacg gcaaaccgg<br>agctccggc cggcgccgg gaggaggacg cgggtcggtt ctaggaaacg gagctcgccgg<br>cgaggactcc atgttggaa cggcgccgt tcgtgtttt tagcgggaaat ccggagccg<br>cggttgagc tggcgcccccc cggccctaa gtgaagatgg aggccccgt gggcctgcc<br>gcccacatcc tgaggcgaa cccgcagcag gactacgaac tcgtccagag ggtcgccagc<br>ggcacctacg gggacgtcta taaggccaga aatgtacaca caggagact ggctgcagta<br>aaaatcatta aattggagcc tggagatgtat ttcttttga ttcaacaaga aatatttatg<br>gttaaagaat gtaaacatttga taacatcggtt gcctacttttggagttatct tagtcggaa<br>aaactatggat ttgttatggat atactgtggat ggccgtt           | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>517 |
| <210> 68   |  |
| <211> 516  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <400> 68   |  |
| gaattcggca cgaggcggtt tcctgttatt ccgggttctc cactccgtcc ccccgccgg<br>tgctctgtgtt gccatggacg gcattgtccc agatatacgcc gttggtacaa agcggggatc<br>tgacgagctt ttctctactt gtgtcaactt cggaccgtttt atcatgagca gcaactcgcc<br>ttctgcagca aacggaaatg acagcaagaa gttcaaaaggat gacagccgaa gtgcaggcg<br>ccctctaga gtgatccaca tccggaaagct ccccatcgac gtcacggagg gggaaatgt<br>ctccctgggg ctgccccttg ggaagggtcac caaccccttg atgctgaagg gggaaaaacc<br>ggccttcatc gagatgaaca cggaggaggc tgccaaacacc atggtaact actacaccc<br>ggtagccccctt gtgtcgccg gccagccccat ctacatccag ttctccaacc acaaggagct<br>gaagaccgac agctctccca accaggcgcc gggccca | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>516 |
| <210> 69   |  |
| <211> 455  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <400> 69   |  |
| gaattcggca cgaggaggcca tagaggctct gcctcgatgc cggtttgcggcc ccgtcttttgc<br>gacacgcccga cccggcgctc cccaaaggat gctgtcccaa caagattccc gtggaaagagc<br>accctgtcg cccctcccg tggacttctg tgccggcccg tccacacccctt ttcttgggtt<br>catgtgggtt ttcgggttccat ggcgggtccag gacggggcgcc gggctccctt cccatctcg  | 60<br>120<br>180<br>240                                    |

|   |     |
|---|-----|
| gctgggaggt ctcagcgcgc ttcctgtcc ctggacgtg cgtctctcct tctcatgccg     | 300 |
| ttctggaaaa tgctttgt gtagagaga gctgcttctg ccagggtgt ggaggtggtg       | 360 |
| gagcgccttc cgattccatt catggcatt tgtatgtga tgtaatttga atagagctgt     | 420 |
| tgattnaagg caaaaaaaaaaaa ac tcgag                                   | 455 |
| <br>  |     |
| <210> 70  |     |
| <211> 569   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(569)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 70  |     |
| gaattcggca cgagcagaac gcagctctgc tctgctngag gaggtgcaga gcctccggga   | 60  |
| ggaggcgttag aaacagcggg tggcttcaga gaacctgcgg caggagctga cctcacaggc  | 120 |
| tgagcgtcg gaggagctgg gccaagaatt gaaggcgtgg caggagaagt tcttccagaa    | 180 |
| agagcaggcc ctctccaccc tgcagctcga gcacaccagg acacaggccc tggtagtga    | 240 |
| gctgctgcca gctaaggcacc tctgcccagca gctgcaggcc gagcaggccg ctgcggagaa | 300 |
| acgcaccgt gaggagctgg agcagagcaa gcaggccgt gggggactgc gggcagagct     | 360 |
| gctgcgggccc cagcgggagc ttggggagct gattcctctg cggcagaagg tggcagagca  | 420 |
| ggagcgaaca gctcagcagc tgccggcaga gaaggccagc tatgcagagc agctgagcat   | 480 |
| gctgaagaag ggcgcattggcc tgctggcaga ggagaaccgg gggctgggtg agcgggccaa | 540 |
| ccttggccgg cagttctgg aagtggagt                                      | 569 |
| <br>  |     |
| <210> 71  |     |
| <211> 555   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 71  |     |
| gaattcggca cgagtggcga cgccccctaa gcggcgggca gtggaggcca cgggggagaa   | 60  |
| agtgctgcgc tacgagacct tcatacgatg cgtgctgcag cgggacttgc gaaagggtct   | 120 |
| ggaccatcgaa gacaaggtat atgagcagct ggccaaatac cttcaactga gaaatgtcat  | 180 |
| tgagcgaactc caggaagcta agcactcgaa gtttatatatg caggtggatt tggctgtaa  | 240 |
| cttcttcgtt gacacagtgg tcccaagatac ttacgcatac tatgtggccc tggatatgg   | 300 |
| tttttcctgt gagttgacac tggcagaagc tctcaagttc attgatcgta agagctctct   | 360 |
| cctcacagag ctcagcaaca gcctcaccaa ggactccatg aatatcaaag cccatatacca  | 420 |
| catgttgcata gaggggctta gagaactaca aggccgcag aatttcccag agaagcctca   | 480 |
| ccattgactt cttccccca tcctcagaca ttaaagagcc tgaatgccaa aaaaaaaaaaa   | 540 |
| aaaaaaaaac tcgag  | 555 |
| <br>  |     |
| <210> 72  |     |
| <211> 567   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(567)   |     |
| <223> n = A,T,C or G  |     |

<400> 72

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| gaattcggca  | cgaggcgtgg  | tggagttgtt | agtgtntat  | ggcaacaccc | tctttgtgtt  | 60  |
| tctcattgtc  | atccttgtc   | tgttgtcat  | cgtgcgtg   | cgcgaaatcc | ggaagtatga  | 120 |
| tgtatgtacg  | gaaaaggtga  | acctccagaa | caatccccgg | gccatggagc | actttccacat | 180 |
| gaagcttttc  | cgtgcggcaga | ggaatctcta | cattgtgtgc | tttccttgc  | tgctgtcctt  | 240 |
| cctgcttaga  | cgcctgggtga | ctctcatttc | gcagcaggcc | acgctgttgg | cctccaatga  | 300 |
| agcccttaaa  | aaggcaggcgg | agagtgttag | tgaggcggcc | aagaagtaca | tggaggagaa  | 360 |
| tgaccagact  | aagaaggagg  | ctgtgttga  | cggaggcaag | ttggatgttg | ggaatgtga   | 420 |
| ggtgaagttt  | gaggaagaga  | acaggagcc  | gaaggctgac | ctgcagaagc | taaaggacga  | 480 |
| gctggcccagc | actaagcaaa  | aactagagaa | agctgaaaac | cagttctgg  | ccatgcggaa  | 540 |
| gcagtctgag  | ggcctcacca  | aggagta    |            |            |             | 567 |

<210> 73

<211> 254

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(254)

<223> n = A,T,C or G

<400> 73

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgagcctgga | caaggagaga | gtgcggntgc | tgagagccga | gcccagcaat | 60  |
| cccgatcctc  | tgagtcgtga | agaaggagg  | cagcaggggg | gttgggggtt | gggcctgagg | 120 |
| caagccccca  | ggctccgctc | ttgccagagg | gacaggagcc | atggctcaga | aaatggactg | 180 |
| tgtgtcgggc  | ctcctcggct | tccaggctga | ggcctccgta | gaagacagcg | ccttgcttat | 240 |
| gcagacacctg | atgg       |            |            |            |            | 254 |

<210> 74

<211> 516

<212> DNA

<213> Homo sapien

<400> 74

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagcagccc  | tcggctgagc | cgcgcgcac  | catgcccgc  | gtggacaagc  | 60  |
| tctctgtaga | ggaggcgttg  | caggacagcc | cccagactcg | ctcttactg  | agcgtgttt   | 120 |
| aagaagatgc | tggcacccctc | acagactata | ccaaccagct | gctccaggca | atgcagcgcg  | 180 |
| tctatggagc | ccagaatgag  | atgtgcctgg | ccacacaca  | gtttcttaag | caactgtctgg | 240 |
| catatgaaaa | acagaacttt  | gctcttggca | aagggtatga | agaagtaatt | tcaacactcc  | 300 |
| actatttttc | caaagtggtg  | gatgagctt  | atcttctcca | tacagagctg | gctaaacagt  | 360 |
| tggcagacac | aatggttcta  | cctatcatac | aattccgaga | aaaggatctc | acagaagtaa  | 420 |
| gcactttaaa | ggatctat    | tgactcgct  | gcaatgagca | tgacctctca | atggcaaaaat | 480 |
| acagcaggct | gcctaagaaa  | aaggagaatg | agaagg     |            |             | 516 |

<210> 75

<211> 468

<212> DNA

<213> Homo sapien

<400> 75

|            |            |            |           |            |            |     |
|------------|------------|------------|-----------|------------|------------|-----|
| gaattcggca | cgagcaggga | cgacgcccag | aatggagct | gactgatatg | gtgggtgggg | 60  |
| tgactggagc | ctcgagtgg  | attgggtagg | agctggctt | ccagttgtct | aaactaggag | 120 |
| tttctcttgt | gctgtcagcc | agaagagtgc | atgagctgg | aagggtgaaa | agaagatgcc | 180 |

|   |     |
|---|-----|
| tagagaatgg caattaaaaaa gaaaaagata tacttgtttt gccccttgac ctgaccgaca    | 240 |
| ctgggtccca tgaaggcgct accaaagctg ttctccagga gtttggtaga atcgacattc     | 300 |
| tggtaaccaa tggtgaatg tcccagcggt ctctgtgcgt ggataccagc ttggatgtct      | 360 |
| acagaaaagct aatagagctt aactacttag ggacgggtgtc cttgacaaaaa tgtgttctgc  | 420 |
| ctcacatgtat cgagaggaag caaggaaaga ttgttacttg tgaatago                 | 468 |
| <br>  |     |
| <210> 76  |     |
| <211> 349   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 76  |     |
| gaattcggca cgagctcgac tcttagcttgc tcggggacgg taaccgggac ccgggtgtctg   | 60  |
| cttcctgtcgc cttcgccctcc taatcccttag ccactatgcg tgagtgcatac tccatccacg | 120 |
| ttggccaggc tgggtgtccag attggcaatg cctgctggga gctctactgc ctgaaacacg    | 180 |
| gcatccagcc cgatgccag atgccaagtg acaagaccat tgggggagga gatgactcct      | 240 |
| tcaacacacctt cttcagttag acgggcgtgt gcaaggacgt gccccgggct gtgtttgttag  | 300 |
| acttggaaacc cacagtcatt gatgaagttc gcactggcac ctaccggca                | 349 |
| <br>  |     |
| <210> 77  |     |
| <211> 469   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 77  |     |
| ataggcacat acacatacac agtctcagca agttataaa gaaccctgtc aggtccactt      | 60  |
| gcaacatggc cttgctactt ggattagctc cttaaaggct gaaaataact ttccctggta     | 120 |
| tgaagaact ggacgcacatct tttaacttat gaaatagaag ttgaacttga aaactctttt    | 180 |
| taaaaaatcc tgggtttgcgaa ggacagctac ataatgaatg tatatattaa gactgttagct  | 240 |
| gaattgcaca tgaatcaga ttgccaactt cttgactttc aatgttagac atttacctt       | 300 |
| aagttgttagt cgatatatgt aqcatgctgt gaaatgtctg ttatagctct ttaattcatac   | 360 |
| agattaaata cagaattatc atttgcgttt cttggtaactt ttatttcaat gtaatcagaa    | 420 |
| gctgtatgt tttgcctttg tagtcctgtg ctttggtaactt gtaattttt                | 469 |
| <br>  |     |
| <210> 78  |     |
| <211> 399   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(399)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 78  |     |
| gcgctcggtt tgagggtctg gcgccccgtt tcctgttcct tcttctgcgc ggctgcagct     | 60  |
| cgggacttcg gcctgaccca gcccccatgg cttcagaaga gctacagaaa gatctagaag     | 120 |
| aggttaaagggt gttgctggaa aaggctacta ggaaaagagt acgtgtatgcc cttacagctg  | 180 |
| aaaaaatccaa gattgagaca gaaatcaaga acaagatgca acagaaatca cagaagaaag    | 240 |
| canaaacttct tgataatgaa aaaccagctg ctgtgggtgc tcccattaca acgggcata     | 300 |
| cggtaaaaat cagtaattat ggtatggatc aagttagata agtttgtgaa aatctacatt     | 360 |
| acctaactg gagttcatca agttcccact gagaatgtg                             | 399 |
| <br>  |     |
| <210> 79  |     |

<211> 439  
<212> DNA  
<213> Homo sapien

<400> 79

|             |            |            |            |            |              |     |
|-------------|------------|------------|------------|------------|--------------|-----|
| ccgagaagct  | ggcgtttgt  | ggtcttgta  | aggagatctc | atttgggaca | actaaggata   | 60  |
| aaatgcgtt   | catcgacg   | tgtaagaact | ccagagctgt | aaccat     | ttttagaggag  | 120 |
| gaaataagat  | gatcattg   | gaggcgaa   | ac gatcc   | cgtatgc    | tgtgtcatcc   | 180 |
| gaaacctcat  | cccgataat  | cgtgttgt   | atggaggagg | ggctgctg   | atatcctgtg   | 240 |
| ccctggcagt  | tagccaagag | gcggataagt | gccccac    | ttt aga    | aaacagtat    | 300 |
| cgttgcgc    | cgcactgg   | gtcatccc   | ttggccctc  | tgaaaac    | ttt gacatgag | 360 |
| ccatccagac  | tatgaccg   | aa gtccgag | cc gacagg  | ttt gaa    | ttt ggagatga | 420 |
| gcacatcgact | gtttgcacaa |            |            |            |              | 439 |

<210> 80  
<211> 437  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(437)  
<223> n = A,T,C or G

<400> 80

|            |            |              |            |            |              |     |
|------------|------------|--------------|------------|------------|--------------|-----|
| aattaacatc | tttttgtt   | aggcatgttc   | aattaatgct | gtagctatca | tagctntgct   | 60  |
| cttacctgaa | gccttgc    | ccc caccac   | ag gac     | gcctgaaga  | gaatgtctt    | 120 |
| gtgtgtccg  | agttgagat  | g cctgccc    | ta ctg     | ccaaaga    | gtgtacagga   | 180 |
| cagcttgtt  | aaattgtt   | ttt cagtt    | ttt acac   | atgtca     | aggctggag    | 240 |
| gcatgtatg  | acacacatgc | ttgtcgga     | ac gctt    | tcgg       | ttgggttat    | 300 |
| tctccccat  | tcctgtgc   | ct acttgc    | ttt agt    | tc         | ttggctctca   | 360 |
| atgggagtc  | ttttgttcc  | ttt agtgggtt | ttt agt    | tc         | ttt tgacatgt | 420 |
| ttgcacatgt | cactact    |              |            |            |              | 437 |

<210> 81  
<211> 472  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(472)  
<223> n = A,T,C or G

<400> 81

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| atattttant | aatgcagagc | tatagtctca | attgttactt | tataagg     | ttttattaac  | 60  |
| aaacccaaat | cctggatttt | cctgtcttt  | ctgtat     | ttt tttt    | aaaaacacgt  | 120 |
| ttgttttaca | tgttagcaa  | ag tctgccc | atctt      | ttt gttt    | ttt gactcca | 180 |
| cctacaagat | aactgtat   | ttt ataaac | actt       | ttt gttt    | ttt gactcca | 240 |
| gaacaagaat | gaagtcat   | ttt tggagt | ttt catgt  | ttt taaa    | ttt agat    | 300 |
| gtgttactt  | ttt gaagg  | ttt tagc   | ttt tttt   | ttt tacagat | ttt ataa    | 360 |
| tgactatgg  | ttt ggag   | ttt gagc   | ttt cc     | ttt ataa    | ttt accatgt | 420 |
| aggaccctga | ttt g      | ttt gagc   | ttt tt     | ttt ataa    | ttt ataa    | 472 |
| cattaaatgc | ttt g      | ttt gagc   | ttt tt     | ttt ataa    | ttt ataa    |     |
| tgaggcttta | ttt g      | ttt gagc   | ttt tt     | ttt ataa    | ttt ataa    |     |
| atacacacat | ttt g      | ttt gagc   | ttt tt     | ttt ataa    | ttt ataa    |     |
| attttatccc | ttt g      | ttt gagc   | ttt tt     | ttt ataa    | ttt ataa    |     |
| aa         |            |            |            |             |             |     |

<210> 82  
<211> 448  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(448)  
<223> n = A,T,C or G

<400> 82

|            |            |             |            |             |             |     |
|------------|------------|-------------|------------|-------------|-------------|-----|
| gttcagtgt  | gccctcagag | ctcttgctgt  | tagctggcag | ctgacgctgc  | taggatagtt  | 60  |
| agtttggaaa | tggtaactca | taataaaacta | cacaaggaaa | gtcagccacc  | gtgtcttatg  | 120 |
| aggaatttgg | cctaataaat | tttagtgtgc  | cttccaaacc | tgagaatata  | tgcttttgg   | 180 |
| agttaaaatt | taaatggctt | ttgcccacata | catagatctt | catgatgtgt  | gagtgttaatt | 240 |
| ccatgtggat | atcagttacc | aaacattaca  | aaaaaatttt | atggcccaa   | atgaccaacq  | 300 |
| aaattgttac | aatagaattt | atccaatttt  | gatctttta  | tattcttcta  | ccacacctgg  | 360 |
| aaacagacca | atagacattt | tggggttta   | taatgggcat | ttgtataaaag | cattactctt  | 420 |
| tttcaataaa | ttgttttta  | atttaaaa    |            |             |             | 448 |

<210> 83  
<211> 270  
<212> DNA  
<213> Homo sapien

<400> 83

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cagtgtgg   | gaattaatca | ggcctcccaa  | attagcagg  | tgctggggag | gaccctagg  | 60  |
| agtggtttat | ggggctagc  | tggtaaaact  | gccctttcct | ttctgttcta | tgagtgtat  | 120 |
| ggtgtttgag | aaaatgtgg  | gctatggttc  | aggcgactt  | cacatgtgca | aagatggaga | 180 |
| aagcactcac | ctacacgttt | aggctcagaa  | tattgattga | aacattttga | atgatcaaaa | 240 |
| ataaaatgtt | atttttaaag | tttcaaaaaaa |            |            |            | 270 |

<210> 84  
<211> 359  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(359)  
<223> n = A,T,C or G

<400> 84

|             |             |            |             |             |              |     |
|-------------|-------------|------------|-------------|-------------|--------------|-----|
| tccaaagtta  | gacaaaatgc  | caggaatgtt | cttctctgct  | aaccttcaagg | aatttggaaagg | 60  |
| aaccactcat  | tcacttctag  | acgacaaaat | gcaaaaaagg  | aggccaaaga  | cttttggaaat  | 120 |
| ggatatgaaa  | gcataacctga | gatctatgt  | cccacatctg  | gaatctggaa  | tgaatcttc    | 180 |
| caagtccaaag | gatgtacttt  | ctgctgctga | agtaatgcaa  | tggtctcaat  | ctctggaaaa   | 240 |
| acttcttgcc  | aaccaaactg  | gtcaaaatgt | ctttggaaagt | ttcctaaant  | ctgaattcag   | 300 |
| tgaggagaat  | attgagttct  | ggctggctt  | tgaanactat  | aagaaaacag  | agtctgatc    | 359 |

<210> 85  
<211> 371  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(371)  
<223> n = A,T,C or G

<400> 85

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| ctgcagcccg  | ggggatccac | tagtccntt   | tggtggatt  | cagcctacag  | ccgcctgggt  | 60  |
| ctgtatccag  | cgcaggatcc | cgcaggatccc | agctgcgcgc | gccccccagt  | ccgcaccccg  | 120 |
| ttcggccca   | gctaagttag | ccctcacca   | gcccgtcaaa | ggaggcacca  | agtgcataaa  | 180 |
| ataacctgctg | ttcggattta | acttcatctt  | ctggcttgcc | gggatttgctg | tccttgccat  | 240 |
| tgactatgg   | ctccgattcg | actctcagac  | caagagcatc | ttcgagcaag  | aaactaataaa | 300 |
| taataattcc  | agtttctaca | caggagtcta  | tattctgata | cggagccggc  | gccctcatga  | 360 |
| tgcttggtgg  | g          |             |            |             |             | 371 |

<210> 86  
<211> 500  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(500)  
<223> n = A,T,C or G

<400> 86

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| ctgcagcccg  | ggggatccac | tagtttncta | tgatcattaa | actcattctc | agggttaaga  | 60  |
| aaggaatgt   | aatttctgcc | tcaatttgt  | tttcatcaat | aagtttttg  | agagtgcaga  | 120 |
| tttttagtca  | ggtctaaaa  | ataaactcac | aatctggat  | gcatttctaa | attctgcataa | 180 |
| tgttccctgg  | ggtacttaa  | caaggaataa | tcccacaata | taccttagct | cctaatacat  | 240 |
| ggagctgggg  | ctcaacccac | tgttttaag  | gatttgcgt  | aacttggggc | tgagaaaaaa  | 300 |
| taatgtatnc  | gaggaagtag | tttttaatg  | tgagcttata | gatanaaac  | aatatcaac   | 360 |
| ttaatttatga | aattgttaga | acctgttctc | ttgtatctga | atctgattgc | aattactatt  | 420 |
| gtactgata   | actccagcca | ttgcaagtct | cagatatctt | agctgtgtag | tgattcttga  | 480 |
| aattctttt   | aagaaaatt  |            |            |            |             | 500 |

<210> 87  
<211> 550  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(550)  
<223> n = A,T,C or G

<400> 87

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgcagcccg | ggggatccac | tagtccant  | tggtggatt  | ccaggaactg | gaccaggnn  | 60  |
| tggagcgat  | ctccaccat  | cgccctccgg | atgagcggg  | ccctctggag | cacctctact | 120 |
| ccctgcacat | ccccactgt  | gacaagcat  | gcctgtacaa | cctcaaacag | tgcaagatgt | 180 |
| ctctgaacgg | gcagcggtgg | gagtgttgtt | gtgtgaaccc | caacaccgg  | aagctgatcc | 240 |
| agggagcccc | caccatccgg | ggggaccccg | agtgtcatct | cttctacaat | gagcagcagg | 300 |
| aggctcgccg | ggtgcacacc | cagcggatgc | agtagaccgc | agccagccgg | tgcctggcgc | 360 |
| ccctgcccc  | cgcctctc   | caaacaccgg | cagaaaacgg | agagtgttg  | ggtgggtgg  | 420 |

|   |     |
|---|-----|
| gctggaggat ttccagtgc tgacacacgt atttatattt ggaaagagac cagcaccgag    | 480 |
| ctcggcacct ccccgccctc tctttccca ngctgcagat gccacacctg ctccttcttgc   | 540 |
| ctttccccgg  | 550 |
| <br>  |     |
| <210> 88  |     |
| <211> 429   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(429)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 88  |     |
| gggaccagac tcgtctcagg ccanttgcag ctttctcagg caaaacgcga ccaaggaaaa   | 60  |
| ctcaactacca tgagaattgc agtgatttgc ttttgcctcc taggcatac ctgtgccata   | 120 |
| ccagttaaac aggctgattc tggaaagttct gaggaaaaagc agctttacaa caaataccca | 180 |
| gtgtctgtgg ccacatggct aaaccctgac ccatacgtaca agcagaatct cctagccccca | 240 |
| cagaatgtct tgcctctga agaaaccaat gactttaaac aagagaccct tccaagtaag    | 300 |
| tccaaacnaaa gccatgacca catggatgt atggatgtatg aagatgtatg tgaccatgtg  | 360 |
| gacagccagg actccattgtc ctcgaacnac tctgtatgt tanatgacac tgatgtattct  | 420 |
| caccatct  | 429 |
| <br>  |     |
| <210> 89  |     |
| <211> 477   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(477)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 89  |     |
| tttaatttaccaagaac ttctcaataa aagaaaaatca tgaatgctcc acaatttcaa      | 60  |
| cataccacaa gagaagttaa ttcttaaca ttgtgttcta tgattatttg taagaccttc    | 120 |
| accaagttct gatatctttt aaagacatag ttcaaaattt cttttgaaaa tctgtattct   | 180 |
| tggaaatatac ttgttgtgtt attaggttt taaataccag ctaaaggatt acctcactga   | 240 |
| gtcatcaggt accctcctat ttagctcccc aagatgtatgt tttttgctt accctaagag   | 300 |
| agnntttctt cttatttta gataattcaa gngcttagat aaattatgtt ttcttaagt     | 360 |
| gtttatggta aactctttta aagaaaaattt aatatgttat agctgaatct ttttgtaac   | 420 |
| tttaatctt tatcatagac tctgtacata tggtaaaattt agctgcttgc ctgtatgt     | 477 |
| <br>  |     |
| <210> 90  |     |
| <211> 310   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(310)   |     |
| <223> n = A,T,C or G  |     |

<400> 90  
 ctgcagcccg gggatccac tagtcanttt attgacacta tttgaaactt ttgaaatata 60  
 aacggagagg cttctgttg agacattgtc accaaaacaa tttttgaaa tgttcctgaa 120  
 actaatttgg gtttaagat taaaagggtt gttaccatc ttatctgagt agttggagg 180  
 agggaaatac cacttagtt catttgaaa atatagacat atttctttg cttcttaaa 240  
 acagcttaaa atgatgaact ttataattt taatttgaag attgaataaa tatttttat 300  
 aaagataaaaa 310

<210> 91  
<211> 532  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(532)  
<223> n = A,T,C or G

<400> 91  
 ctgcagcccg gggatccac tagtcatgat gtgtgttga ttttaaaaat tatctgcaac 60  
 cttatttcag ctgaagtact ttatatttca aaagaatgaa taacattgtat aataaaatcg 120  
 ctactttaag gggtttgc 3aaataaata ttgtggcctt atatatcaca ctattgtaga 180  
 aagtattatt taattttaat ggatgcaggt tgcactaa agaaagatta tatataacta 240  
 tgtaattgt tcataatcaa cagaaaccaa gatagagcta caaactcagc tgtacagttc 300  
 gtacactaaa ctcttcttgc ttttgcatta taaggaatta agtctccgat tatttaggtga 360  
 tcacccttgg 3gatcagtt tctgctgaag gcacctactc agtatcttt cctctttatc 420  
 actctgcatt ggtgaattta atcctcttgc ttgtgttcaa cttttgtgtg cttttaaat 480  
 cagctttatt ctaaagcaaa tctgtgtcta cttttaaaaa ctgnaaatgg aa 532

<210> 92  
<211> 608  
<212> DNA  
<213> Homo sapien

<400> 92  
 cactactgtc ttctccctgt agctaattca tcaatattct tcccttgctt gtggcagtg 60  
 gagagtgtc ctgggtgtac gctgcacctg cccactgagt tggggaaaaga ggataatcag 120  
 tgagactgt tctgctcaga gctcctgatc taccggcccc cctaggatcc aggactgggt 180  
 caaagctgca tggaaaccagg ccctggcagc aacctggaa tggctggagg tgggagagaa 240  
 cctgacttctt cttccctctt ccctcctcca acattactgg aactctatcc tggtaggatc 300  
 ttctgagctt gtttccctgc tgggtggac agaggacaaa ggagaaggaa ggtctagaa 360  
 gaggcagccc ttctttgtcc tctggggtaa atgagctga cctagagtaa atggagagac 420  
 caaaagccctc tgattttaa ttccataaaa atgttagaag tatatatata catatatata 480  
 ttctttaaa tttttgagtc ttgtatgt ctaaaaatcc attccctctg ccctgaagcc 540  
 tgagtgagac acatgaagaa aactgtgtt cattaaaga tggtaattaa atgattgaaa 600  
 ctggaaaa 608

<210> 93  
<211> 519  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature

&lt;222&gt; (1)...(519)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 93

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| ctgcagcccg  | ggggatccac | tagtccagtg  | tgggtggatt  | ctaaagaagt  | agggtgctca  | 60  |
| cacaatata   | taaagaatt  | gttagaaatt  | tgaaggaaa   | aaaagaaaacc | gaagccagta  | 120 |
| tttaataat   | tgcttttct  | gtgtatttt   | tattgggctg  | ggggatagca  | tcaaagggtt  | 180 |
| aactttttga  | gctttctatg | aaaaacccca  | ggacccctt   | tcttggc     | tttctatgg   | 240 |
| aatgcgtatgt | cagatggatg | gtaatggtgc  | cctccagtgg  | ctgtgagacc  | tcattgcgc   | 300 |
| ttgtctactg  | gagctttagt | cttctgagac  | ggaggaaaac  | tgctgaatac  | tctggattca  | 360 |
| tctatgtcta  | caatgttgc  | tttatgaaa   | actacactgn  | gctaggcgca  | ttcttaggaca | 420 |
| tgaatatgac  | cacacctct  | ttcacccgggt | gtttctgttag | caagtttca   | tatttttc    | 480 |
| aaacaatggt  | ttctctgcgt | taattattga  | ggaaaaaaa   |             |             | 519 |

&lt;210&gt; 94

&lt;211&gt; 569

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(569)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 94

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ctgcagcccg  | ggggatccac | tagtccantg  | tgggtggatt | cgtctgcgag | ccaggattcc | 60  |
| cgcatccagag | acaatggccc | cgatggatg   | gagccccaa  | gcgtcatcga | gagtaactgg | 120 |
| aatgagatgtt | tgacagctt  | tgtgacatg   | aacctctcg  | agtcccttct | ccgtggcatc | 180 |
| tacgcctatg  | gttttgagaa | gccctctgcc  | atccagcagc | gagccattct | accttgtatc | 240 |
| aagggttatg  | atgtgattgc | tcaagccaa   | tctggactg  | ggaaaacggc | cacatttgcc | 300 |
| atatcgattc  | tgcagcagat | tgaatttagat | ctnaaagcca | cccaggcctt | ggtcttagca | 360 |
| cccaactcgag | aattggctca | gcagatacag  | aagggtgtcn | tggcactagg | agactacatg | 420 |
| ggcgcctcct  | gtcacgcctg | tatcgggggc  | accaacgtgc | gtgctgaggt | gcagaaactg | 480 |
| cagatggaaag | ctccccacat | catcgtgggt  | accctggcc  | gtgtgttga  | tatgcttaac | 540 |
| cgagatacc   | tgtcccccaa | atacatcaa   |            |            |            | 569 |

&lt;210&gt; 95

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 95

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| gacaagctcc  | tggtctttag  | atgtcttctc | gttaaggaga | tgggcctttt | ggaggtaaag | 60  |
| gataaaatga  | atgagttctg  | tcatgattca | ctattctaga | acttgcata  | ccttactgt  | 120 |
| gttagctctt  | tgaatgttct  | tgaatgttta | gactttctt  | gtaaacaat  | gatatgtcct | 180 |
| tatcattgtat | taaaagctgt  | tatgtcaac  | agtgtggaga | tccctgtct  | gatttaataa | 240 |
| aatacttaaa  | cactgaaaaaa |            |            |            |            | 260 |

&lt;210&gt; 96

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 96

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| atttctcttt | agttctttgc  | aagaaggtag | agataaaagac | acttttcaa   | aaatggcaat  | 60  |
| ggtatcgaaa | ttcctaagc   | aggcctgggt | tattaaaaat  | gaagagcagg  | aatatgttca  | 120 |
| aactgtgaag | tcatccaaag  | gtggtccccg | atcagcggtg  | agcccctatc  | ctacottcaa  | 180 |
| tocatcctcg | gatgtcgctg  | ccttcataaa | ggccataatg  | gttaaagggtg | tggatgaagc  | 240 |
| aaccatcatt | gacattctaa  | ctaagcgaaa | caatgcacag  | cgtcaacaga  | tcaaaggcagc | 300 |
| atatctccag | gaaacaggaa  | agcccctgga | tgaaacactg  | aagaaagccc  | ttacaggcact | 360 |
| cottgaggag | gttgggtttag | ctctgctaaa | aactccggcg  | caatttgatg  | ctgatgaact  | 420 |
| tggttgctgc | catgaagg    |            |             |             |             | 438 |

&lt;210&gt; 97

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(471)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 97

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| tcgttatccg  | cgtatngttt  | cctggcagct | acattcctgc  | tcctggcgct | cagcacccgt  | 60  |
| gcccaggccg  | aaccgggtca  | gttcaaggac | tgcgatattc  | agtctaaaag | cagaaggcc   | 120 |
| gtgggtcgatg | gcatcctgtat | gggcgtccca | gttcccttcc  | ccattcctga | gcctgatgggt | 180 |
| tgttaagagtg | gaattaactg  | ccctatccaa | aaagacaaga  | cctatacgta | cctgaataaaa | 240 |
| ctaccagtga  | aaagcgaata  | tccctctata | aaactggtgg  | tggagtgccg | acttcaggat  | 300 |
| gacaaaaacc  | aaagtcttctt | ctgctgggaa | atcccagtac  | agatcggttc | tcatctctaa  | 360 |
| gtgcctcatt  | gagttcgggt  | catctggcca | atgagtctgc  | tgagacttgc | gacagcacct  | 420 |
| ccagctctgc  | tgcttcaaca  | acagtgactt | gctctccaaat | ggtatccagt | g           | 471 |

&lt;210&gt; 98

&lt;211&gt; 578

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 98

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ccagtgtgg   | ggaattcgca | gccaccgcca  | cccattggaa | tggccaacag  | gggacctgca | 60  |
| tatggcctga  | gccgggaggt | gcagcagaag  | attgagaaac | aatatgtatgc | agatctggag | 120 |
| cagatcctga  | tccagtgat  | caccacccag  | tgccgaaagg | atgtggccg   | gccccagcct | 180 |
| ggacgcgaga  | acttccagaa | ctggctcaag  | gatggcacgg | tgctatgtga  | gctcattaat | 240 |
| gcactgtacc  | ccgaggggca | ggccccagta  | aagaagatcc | aggcctccac  | catggccttc | 300 |
| aagcagatgg  | agcagatctc | tcaagttctgt | caagcagctg | agcgctatgg  | cattaacacc | 360 |
| actgacatct  | tccaaactgt | ggacctctgg  | gaaggaaaga | acatggcttg  | tgtcagcgg  | 420 |
| acgctgtatga | atctgggtgg | gctggcagta  | gccccagatg | atgggcttt   | ctctggggat | 480 |
| cccaactgg   | tccctaagaa | atccaaggag  | aatcctcgga | acttctcgga  | taaccagctg | 540 |
| caagaggcga  | agaacgtat  | cgggttacag  | atgggcac   |             |            | 578 |

&lt;210&gt; 99

&lt;211&gt; 416

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(416)

<223> n = A, T, C or G

<400> 99  
 caagaatgtg cctaactggc atanagatct ggtacgagtg tgtaaaaaca tccccattgt 60  
 gntgnnggc aacaaagtgg atattaaggc cagggaaagtg aaggcgaaat ccattgtctt 120  
 ccaccgaaag aagaatcttc agtactacga catttctgcc aaaagtaact acaactttga 180  
 aaaggcccttc ctctggcttg ctaggaagct cattggagac cctaacttgg aatttgttgc 240  
 catgcctgct ctcgccccac cagaagttgt catggaccca gctttggcag cacagtatga 300  
 gcacgactta gaggttgctc anacaactgc tctccggat gaggatgtg acctgtgaga 360  
 atgaagctgg agccancgn cagaagtcta gtttatang cagctgtctt gtgatg 416

<210> 100

<211> 441

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(441)

<223> n = A, T, C or G

<400> 100  
 agacaatgac cccacggntc ctccttatga ctccattcaa atctacggtt atgaaggcag 60  
 gggctcagtg gccgggtccc tgagctccct agagtcggcc accacagatt cagacttgga 120  
 ctatgattat ctacagaact ggggacctcg ttttaagaaa ctagcagatt tgtatggttc 180  
 caaagacact tttgtatgacg attcttaaca ataacgatac aaatttggcc ttaagaactg 240  
 tgtctggcgt tctcaagaat ctanaagatg tgtaaacagg tatttttta aatcaaggaa 300  
 aggctcattt aaaacaggca aagttttaca gagaggatac atttaataaa actgcgagga 360  
 catcaaagtg gtaaatactg tgaataacct tttctcacaa aaaggcaaat attgaagttg 420  
 ttatcaact tcgctagaaa a 441

<210> 101

<211> 521

<212> DNA

<213> Homo sapien

<400> 101

ccagcgccca gagagacacc agagaaccca ccatggccccc ctttgagccc ctggcttctg 60  
 gcatctgtt gttctgtgg ctgatagccc ccagcaggcc ctgcacctgt gtcccacccccc 120  
 acccacagac ggcctctgc aattccgacc tcgtcatcag ggccaagttc gtggggacac 180  
 cagaagtcaa ccagaccacc ttataccagc gttatgagat caagatgacc aagatgtata 240  
 aagggttcca agccttaggg gatgccgctg acatccgggtt cgtctacacc cccccatgg 300  
 agagtgtctg cggatacttc cacaggtccc acaaccgcag cgaggagtt ctcattgtctg 360  
 gaaaactgca ggtatgactc ttgcacatca ctacctgcag tttctgtggat ccctggaaaca 420  
 gctctgagctt agctcagcgc cggggcttca ccaagaccta cactgttggc tgtgaggaat 480  
 gcacagtgtt tccctgttta tccatccccct gcaaactgca g 521

<210> 102

<211> 520

<212> DNA

<213> Homo sapien

<400> 102

gaagaaaaag aaattctgat acgggacaaa aatgctcttc aaaacatcat tctttatcac 60

|  |  |
|--|--|
| ctgacaccag gagtttcat tggaaaagga tttgaacctg gtgttactaa catttaaag<br>accacacaag gaagcaaaat cttctgaaa gaagtaaatg atacacttct ggtgaatgaa<br>ttgaaaatcaa aagaatctga catcatgaca acaaattggtg taattcatgt tgtgataaaa<br>ctcctctatc cagcagacac acctgttggaa aatgatcaac tgctggaaat acttaataaaa<br>ttaatcaaat acatccaaat taagtttgtt cgtggtagca ccttcaaaga aatccccgtg<br>actgtctata gaccacact aacaaaagtc aaaattgaag gtgaacctga attcagactg<br>attaaagaag gtgaaacaat aactgaagtg atccatggag agccaattat taaaaaatac<br>accaaataatca ttgatggagt gcctgtggaa ataactgaaa               | 120<br>180<br>240<br>300<br>360<br>420<br>480<br>520 |
| <br>   |  |
| <210> 103  |  |
| <211> 479  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <220>  |  |
| <221> misc_feature   |  |
| <222> (1)...(479)  |  |
| <223> n = A,T,C or G   |  |
| <br>   |  |
| <400> 103  |  |
| ctgattctca ggctagaagt gtcacttttc ttatctgtac ttccaaagca ctccgtata<br>tttttattat ggcatttata tatagttcat ttatatttaa attttaattc catgaacaat<br>caagtaccaa gtataatgga gaaggtgctc atcctctgcc ttcccttgagc ttctgggtga<br>tgccaggccc aagtcttgt ggcacccagc tccatgctt gaatactatg tggctgaatg<br>aatttttaaa atctcaaagc agttaaacag caggaagcc cattaacttc gtactgaaaa<br>agcaacatac tgtgatgata cgggatgaca tcatttcagg ttggcatac aaaaaagtaa<br>ggaagctaaa ctaagactat actcaccagg ccatttagaa gttttaataa atgcctccac<br>tatTTTTTttt cttanacata gctttaatg gggaaatgaa attagtaat gactatTTT | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>479  |
| <br>   |  |
| <210> 104  |  |
| <211> 324  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 104  |  |
| tgaccatcca tatccaatgt tctcatttaa acattaccca gcatcattgt ttataatcag<br>aaactctggc cttctgtct ggtggactt agagtctttt gtgccataat gcagcagtat<br>ggagggagga ttttatggag aaatggggat agtcttcattg accacaaaata aataaaggaa<br>aactaagctg cattgtgggt tttgaaaagg ttattatact tcttaacaat tcttttttc<br>aggactttt ctatgttat gactgttact tgaccttctt tgaaaagcat tccaaaatg<br>ctctatTTTA gatagattaa catt  | 60<br>120<br>180<br>240<br>300<br>324                |
| <br>   |  |
| <210> 105  |  |
| <211> 541  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 105  |  |
| cttggttcca gaacctgacg accccggcgac ggcgacgtct cttttgacta aaagacagtg<br>tccagtgtct cagccttagga gtctacgggg accgcctccc ggcggccac catccccaaac<br>ttctctggca actggaaaat catccgatcg gaaaacttcg aggaattgtt caaatgtctg<br>ggggtaatgt tgatgttag gaaatgtgt gtggctgtcag cgtccaaagcc agcagtggag<br>atcaaacagg agggagacac tttctacatc aaaacctcca ccaccgtcg caccacagag<br>attaacttca aggttgggaa ggagtttgag ggcagactg tggatggag gccctgtaa   | 60<br>120<br>180<br>240<br>300<br>360                |

|  |     |
|--|-----|
| agcctggta aatgggagag tgagaataaa atggctgtg agcagaagct cctgaaggaa      | 420 |
| gagggccccca agacctcgta gaccagagaa ctgaccaacg atgggaaact gatctgacc    | 480 |
| atgacggcgg atgacgttgc gtgcaccagg gtctacgtcc gagagtgagt ggccacaggt    | 540 |
| a  | 541 |
| <br>   |     |
| <210> 106  |     |
| <211> 391  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 106  |     |
| cagaagtctt ggactgcaac tacatacatg gaatatgaga ctcttacctt gggagatatg    | 60  |
| attaggagaa gtggggcca cagtgcaaaa atcccaaggc ccaaacctgc accactgact     | 120 |
| gctgaaatac agcaaaagat ttgcatttt ccaacatctt gggactggag aaatgttcat     | 180 |
| ggtatcaatt ttgtcagtcc tggcgaaaac caagcatctt gtggcagctg ctactcattt    | 240 |
| gcttctatgg gtatgtaga agcgagaatc cgtatactaa ccaacaattc tcagacccca     | 300 |
| atcctaagcc ctcaggaggt tggctttgt agccagtatg ctcaaggctg tgaaggcggc     | 360 |
| ttcccataacc ttattgcagg aaagtacgcc c                                  | 391 |
| <br>   |     |
| <210> 107  |     |
| <211> 462  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(462)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 107  |     |
| cgtgaccta agatgngcca ctctgactgg aagagtggag agtactggat tgaccccaac     | 60  |
| caaaggctgca acctgatgc catcaaagtc ttctgcaaca tggagactgg tgagacctgc    | 120 |
| gtgtacccca ctcagccag tggggcccaag aagaactggt acatcagcaa gaaccccaag    | 180 |
| gacaagaggc atgtctggtt cggcgagagc atgaccgatg gattccagtt cgagtatggc    | 240 |
| ggccagggct ccgaccctgc cgatgtggcc atccagctga ctttctgcg cctgatgtcc     | 300 |
| accgaggcct cccagaacat cacctaccac tgcaagaaca gcgtggccct aatggaccag    | 360 |
| cagactgggn acctaataa gcccctgctc ctccaggcgt ccaacganat ngagatccgc     | 420 |
| gccgaggcga acagccgctt cacctacagc gtcactgtcg at                       | 462 |
| <br>   |     |
| <210> 108  |     |
| <211> 580  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 108  |     |
| atataccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt    | 60  |
| gacatataaga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt   | 120 |
| acaatctcat catcctgaag cctataatga agaaaaagat ctggaaactg agttgtggag    | 180 |
| ctgactctaa tcaaattgtga tgattggat tagaccattt ggccttggaa ctttcatagg    | 240 |
| aaaaatgacc caacatttct tagcatgagc tacctcatct ctggaaactg ggatggactt    | 300 |
| actattcttg ttatattttt agatactggaa aggtgctatg cttctgttat tattccaaga   | 360 |
| ctggagataa gcaggcctaa aaaggatata ttattttcc ttaatgtatg gtgtaaaat      | 420 |
| tcttcctata aaattccctta aaaataaaaga tggtttaatc actaccattt tgaaaacata  | 480 |
| actgttagac ttcccgttcc tggaaagaaag agcatcgatc caatgttttgc tcaactgttcc | 540 |

|  |     |
|--|-----|
| tctgtcatac tgtatctgga atgctttgta atacttgcac                              | 580 |
| <br>   |     |
| <210> 109  |     |
| <211> 482  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(482)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 109  |     |
| caggcgtgca gtttccggc tctccgcgcg gccgggaaag gtcagcgccg taatggcgtt         | 60  |
| cttggcgctcg ggaccttacc tgaccatca gaaaaaggtg ttgcggctt ataagcgccc         | 120 |
| gctacgcccc ctcgagtcgt ggtgcgtcca gagagacaaa taccgataact ttgcggctt        | 180 |
| gatgagagcc cggttgaag aacataagaa tgaaaaaggat atggcgaagg ccacccagct        | 240 |
| gctgaaggag gccgaggaag aattctggta ccgtcagcat ccacagccat acatcttccc        | 300 |
| tgactctcct gggggcacct cctatgagag atacnattgc tacaaggccc cagaatggtg        | 360 |
| cttagatgac tggcatcctt ctgagaaggc aatgtatcct gattacttg ccaagagaga         | 420 |
| acagtggaaag aaactgcgga gggaaagctg ggaacgagag gtttaaggc tcgaggagga        | 480 |
| aa   | 482 |
| <br>   |     |
| <210> 110  |     |
| <211> 286  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <400> 110  |     |
| aatcattctg cactcaactgg gtgcatacgca tggtagagg ggcttagatgg ggacagtcat      | 60  |
| caactggcggt atatacggtt acatatgatc cttagccacc agggcacaag cttaccagta       | 120 |
| gacaatacag acagagcttt tggtagctg taactgagct atggaatagc ttcttgatg          | 180 |
| taccttttttgc cttaaatttgc ctttttagtt ctaagattgtt agaatgatcc ttcaaatttgc   | 240 |
| taatcttttc taacagagat atttaatat acttgctttc ttaaaa                        | 286 |
| <br>   |     |
| <210> 111  |     |
| <211> 465  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(465)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 111  |     |
| agctactgtt aagatttgac agattgtctt gtcttttcc agtatataa ggtatctata          | 60  |
| tatgtatataa ctgtatatac ttatataat ttattgtttaa aatataatac atatgtatata      | 120 |
| gtatataataa gtatgtgtt atatgtatata atttaataca attttaataat ttttttttgc      | 180 |
| tattaaatgtt atacatataat acacacatata atatacatata gcataatattt aacacatgtt   | 240 |
| aaataaacat aatgtacca ttttttttgc ggcctttca gntaatgtt tgaagaatttt          | 300 |
| ttcttatttttgc tttaaacttctt caaaaacat taaaactgcattt tatgttctga gagtagatgt | 360 |
| accacacatata attctaccat ttctgtatttgc ttggccatgtt aggttgcattt taatttttgc  | 420 |
| atttattatgtt atgcattgttca caatcattttgc ttttgcatttgc agtttgcattt          | 465 |

<210> 112  
<211> 773  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(773)  
<223> n = A,T,C or G

<400> 112

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| ttttttttca | gtttttgcag  | ttggtgtggt  | tagcagatac  | tttcttagaa  | taaaatttat  | 60  |
| aactcaattt | gatTTTaaa   | aagtgtttt   | agtgatttaa  | aatgttgata  | tggaaaaata  | 120 |
| ttaaacatta | tatagatagt  | aggcaaattc  | atatccta    | tgcaatatta  | gtttgttagca | 180 |
| ttttaaattt | aaatctaaat  | ttcttgat    | attgccacat  | tagttgtat   | gtttaataaa  | 240 |
| tggtggttaa | agatttattt  | gtaatttaat  | ctgtgtactt  | agttgcccatt | gacotctctt  | 300 |
| ttagcttttc | ataaaataat  | atcccttaat  | accttacctc  | cucccttcaa  | ttgactgtat  | 360 |
| ctgggatagg | gtgttcttgc  | gagtttatct  | ttgttaaagaa | ggtcagaagt  | gacatataac  | 420 |
| cctattccct | agggcccgag  | gtgtcttcc   | ttacagagtt  | gtatTTtaag  | tgagtcaact  | 480 |
| cctgagccag | catctactaa  | gagaaccttc  | aaacataatc  | ataggcattt  | aaataatttg  | 540 |
| aaaaatcaaa | ttccttgcatt | taaaaacatt  | tatccttang  | ttcatttttt  | tataangtt   | 600 |
| ccttttttaa | aaaaaaggat  | ttgttattt   | gaaaggaaat  | ggtggctggg  | ttttttttaa  | 660 |
| gcattatgn  | aaggggagtt  | acccttattt  | ttctttctcc  | ccangaaaa   | tgggtgaagg  | 720 |
| gaacctgggc | aatgccccat  | tttgnaaaaaa | ttccactttc  | tttgaacaat  | ggg         | 773 |

<210> 113  
<211> 543  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(543)  
<223> n = A,T,C or G

<400> 113

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| gtttttctga  | tttggaaaaat | tttttataat | attactataa | gatgagatta  | acaatcttgc | 60  |
| taaaaatca   | attatgtttt  | gggcttaaaa | aaaaccctag | tttttctac   | tattatgtat | 120 |
| ctcaaatgat  | ttgtgagtga  | tagtactcaa | atgagaattt | catttaattt  | gtacatagtt | 180 |
| aaatcgctt   | tttttgaagc  | acaaagttag | gatgtttctc | atcagaattt  | tctgtttgaa | 240 |
| tagggaaaag  | tggcatttgt  | catgaggcat | cattaaaaac | ggaaagcaga  | ggaaaaattt | 300 |
| gaaaagctaca | gaaaaagat   | tcacatgaaa | aaccaagctg | aagaaaaaaag | ctgcagaaca | 360 |
| gtttcgaatg  | cgactaaaaa  | attaagcca  | agatgnaaat | gaagctagaa  | agggagatct | 420 |
| cagaaaagaag | ccagccgagc  | ctgtcaaaca | actggatgtc | cagaaaaata  | ttcaggttcc | 480 |
| ccagggggaa  | gcatgggtac  | ttggtttgan | gcttggaga  | nggagactgg  | aaggaaagaa | 540 |
| tga         |             |            |            |             |            | 543 |

<210> 114  
<211> 550  
<212> DNA  
<213> Homo sapien

<220>

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(550)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 114

|               |             |             |            |            |     |
|---------------|-------------|-------------|------------|------------|-----|
| gaaaagaggtaaa | ttacatagac  | tgctggagga  | agagtgttcc | agtggagaga | 60  |
| aacagagcta    | gtgcaaaggc  | cctgagggtga | gagcatgcct | ggtgtgatcc | 120 |
| aggaggccag    | ggtgtgtggat | gaggaggttag | caaggaggan | agtacgagga | 180 |
| ncaaggaaaa    | atggcagtgg  | ggcggtac    | ctanggtct  | agtacccat  | 240 |
| ttgccttttgc   | ctcccaantg  | aatgggtac   | tcnttgaagg | cttttaanc  | 300 |
| cattgattga    | tttanaagtt  | taaanggtac  | acnnttgggt | attgtggcca | 360 |
| gccccaaagaa   | gcaagaagg   | tagaaagcca  | gnaaaccaac | tnaggaggt  | 420 |
| tctcggntga    | nanacantgg  | tggctnggt   | taaaaagttt | tggaaaaaat | 480 |
| tgatggtttgc   | tttcctgttc  | ttgggggcnt  | aggcattcca | actccttacc | 540 |
| ccccntttga    |             |             |            |            | 550 |

&lt;210&gt; 115

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(550)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 115

|             |            |            |            |            |     |
|-------------|------------|------------|------------|------------|-----|
| caatgtggca  | cttaacttan | tggtacaac  | tgtatcacat | catgtgtgaa | 60  |
| actcaaatct  | ctctctggga | aaacncggct | gctccccga  | tggctggcag | 120 |
| ctcggctctcc | cgtccgtctc | tggggcaagg | tgggttccct | catgtatn   | 180 |
| cgtgcgggtgc | ttctctcttg | gcatacagct | cacagctctt | tggcctatac | 240 |
| tttatnctcc  | ggtgctggag | gtgttaatgg | gaaagagctc | ggttaaatgc | 300 |
| tggcccgtgg  | gtgatgctct | acatgactga | attcnctct  | nacggggact | 360 |
| ctatacacta  | natccttcca | ccanagtggc | gttaaggacg | gtgtctggg  | 420 |
| cgttacangc  | cccanctctc | tgaaatgagt | ccananatga | tggaanctga | 480 |
| aatcactctg  | gtctggcatg | ntctccgtgc | cgaaacat   | atatgtatgt | 540 |
| acgaaaanana |            |            |            |            | 550 |

&lt;210&gt; 116

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(463)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 116

|            |            |            |            |            |     |
|------------|------------|------------|------------|------------|-----|
| cacaatgtgg | tactttactt | agttggtaca | actgtatcat | atcatgtgtt | 60  |
| tgacgtgact | ccgcaactcc | gcaccagact | acactgcacg | aatcacgtg  | 120 |
| ggggacaaa  | nattgacgca | atgttgc    | antgccaccg | tgccacacca | 180 |
| acgtcagtct | tctctccccc | aaaaacccag | gaccctcntg | atctcccgac | 240 |
| ngttgtgg   | gactgagcnc | aaaaccgagg | tcgttca    | cngaggtcct | 300 |
|            |            |            |            |            |     |

|  |     |
|--|-----|
| atccaganaaa agccccgaag acatcacnngc cttcggtgt cnctctcaacg tctgcacaga  | 360 |
| cggctaacgc aggatcattc angtccacaa gctccacccc tcanaaaactc tcnaacaagg   | 420 |
| cagccgaaac acgttccct gccctccgga gaatacanaaa cag                      | 463 |
| <br>   |     |
| <210> 117  |     |
| <211> 503  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(503)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 117  |     |
| nncaactnatg tgctacgtta acttagttgt acaactcgat cctatccatg tggtaattc    | 60  |
| tctccagcag tacactgang atacanctta ttgttattga cgtgcgtgc gctcaactacc    | 120 |
| gncagccagg gaatgcgcct caggaaccct ggtgcccacc ctggctggca tngcatttgt    | 180 |
| caaggaagag aaacgagntg ccattggagc cctcctactg ccatgagggc ctgaaacaaa    | 240 |
| ctgtgtatgt ctctgcgaag gtctgggtgc aaggccccgc tggctcacta tggcacaccca   | 300 |
| ctcnnggctgt aagttgtgtt cctgaaggta ctcancaggag tggccggg acctggatac    | 360 |
| gtgcacattt cctgtgcga aaaccagcat tggatgtgca catgtatgtt gttccactgaa    | 420 |
| atgtcnctgc ggcctcagat ttcaaggaga ttgactctca tctcnnttgc ctactaagag    | 480 |
| agagcacccctc acctgaatgt caa  | 503 |
| <br>   |     |
| <210> 118  |     |
| <211> 560  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(560)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 118  |     |
| tgggggnnca ctaagtgcta cgttacttag ttgtacgact cgatcctatc atgtggtaa     | 60  |
| ttctgnagn cttgtctcatg agcctctctg gtgcgtgtc ttttatnggtt cggcgtctc     | 120 |
| tatcgcttta tctcttctga ctcgcaccgg ggccggcggc atcaccggcc aagaccctgc    | 180 |
| acaatgaaga ctgcaggagc aggccgggtgg cccacctggc cctggacactg aagaccnnaaa | 240 |
| ctggagcagg ctcngccgg aggactgggc accgcctaca gcccacgtca cccacgggtgg    | 300 |
| ctggananaac aatgaaaaca agaagaactt ctctacccaa gagagaaggta caaaaccncg  | 360 |
| aactcaactgt cggaaattt actaaaactg cngaaactgaa gaaaacaacn caaagccnnnc  | 420 |
| tnaagcanag aagnaaactg agacgaacat catccnccna actaatgaaa agagagacgt    | 480 |
| tccctgnaga gacnaagaga gagaaagagc cccagacnngc cccggactaa gattctaata   | 540 |
| agagttgtt gtgagagaag   | 560 |
| <br>   |     |
| <210> 119  |     |
| <211> 638  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |

&lt;222&gt; (1)...(638)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 119

|   |                       |     |
|---|-----------------------|-----|
| acaaaagtgc tacgttactt agctgtacga ctcgtcatat | ccatgtggtg aatcatacgc | 60  |
| tattttatat acngtngatc aacatgaagg gttngtgtct | gatcccgccg atcaaaacac | 120 |
| gtgttacttt gactccccaa acctactcta gtaataccta | ctattgacca gaaccttaca | 180 |
| ttacataaac agttnccata ttctgtatat atatgtatac | tgtattctta ataagtaagc | 240 |
| taagaaatgt tattgaaatc ataaggaaaa gaaatgtatt | atacactgta tgtattgtct | 300 |
| gtantgtact gtctgttaca agatgatcgt ctgatgaatg | atgcgctgca ccccaactat | 360 |
| gtattacaaa caatcnctt tcattgtgtc tgacttgctt  | ctgaaatact ccacacncta | 420 |
| tngctttata tggtcctggt gtattcaggt tatntatgcc | taactgaaaa tcccagaacc | 480 |
| tgaagatatg tttctgtatc cncattactg ganaaagaac | gcccatcaat actcnccgng | 540 |
| ttaacggat ccccacctga cnccgcatac acagagtgt   | naatttgtnt acacttntca | 600 |
| cgtancttagc tttgaataac gctttcttt ttcttccc   |                       | 638 |

&lt;210&gt; 120

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(434)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 120

|  |                        |     |
|--|------------------------|-----|
| ngngngggca caaaagctgc tatgtttaac ttagcttggg  | tacgactcgt tcataatccat | 60  |
| gtgnntgant caccgcctca ctgccaagca tcattttgg   | tctacgnctc aanctgtgna  | 120 |
| aangatgtgg gttaggggan tgaagatgca aacncctagg  | gtangggcat ttanaactga  | 180 |
| aaagganagg aaganaagac ctgcgaacgt ggggataag   | actanaagaa agacgggaga  | 240 |
| naatantgtc tttgancctc aaatggaaca tntccatcc   | tatctgttan aaancacccan | 300 |
| gtaaaatggg atgtntgcac naaagaataa gttaaactaa  | acnccggacn gtgactanaa  | 360 |
| aatgaangac cacanatgaa aaggcgtatca ctngcctgtt | tacctancct gtanacctat  | 420 |
| atttcnggg ttat                               |                        | 434 |

&lt;210&gt; 121

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(631)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 121

|   |                       |     |
|---|-----------------------|-----|
| caaagcgcta tgtaatgag cttgtacgac tcgtcatatc  | ttgtggtgta tcattttctc | 60  |
| tctcttttc aacaaactcc ccagctccac ccggctctca  | cctccgagac cagganccaa | 120 |
| aacgancgaa gatggctgct ctgcgcgcca cgccgcgcca | ctcccgetgc ccccgcccc  | 180 |
| gattccttgg ataaaganaa gaatcgcaag aaaccatcaa | tcgcactetc cttctccggc | 240 |
| gctcgncgtt ccggctccgg gtcggatgct gcaaatgctg | ggatgccgag ntgtgcgcgg | 300 |
| gcccagntgc gcacggttac acacaccact ctggactgga | gaagaatcat ttatantct  | 360 |
| gtgccgcacc cgctcaat gcgttgcgt aactcacgaa    | agnagtcaat ntgttctaac | 420 |

|   |     |
|---|-----|
| gngctgaaca cacgcagacc ncacnaaagc gccgatggga ctgctgccgg aacctggaga | 480 |
| cctctaactc caagaaccgc gcaaccgggc ggcctccgtc ccggcgntgg gaactgtntc | 540 |
| cccccgaaat tgttccggnt taacgcgacc cggttanctt cgtnaaaggg nggcctnaa  | 600 |
| ttcggtgccc tncngcggg gggtgaccgc c                                 | 631 |

&lt;210&gt; 122

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(678)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 122

|  |     |
|--|-----|
| caaagcggct angtaatta gctggtacga ctcgtcatat catgtggtn atccacacat    | 60  |
| ggaatgaggg tcccgtcac tctggggtc tgctgctctg gtccatgtgc cagatntaaa    | 120 |
| tccagatgac cagtctcctc ctccctgtct gcacgggtgg ganacgaatc accatcactt  | 180 |
| gnccggcaat caganattan aaatgattaa cctggtatca gcagaaacca gggaaaccct  | 240 |
| aagctctgat ctttgcgtca tcagttacaa gtggggtcct tcnccgttca cggcagtgtnt | 300 |
| ctggcacaga ttcatctcac atcnccgtc cagcctgaaa aatttacact tatactgtct   | 360 |
| acggataaca ataccctgna cttcggcaag gactanggtg gaatnnaacn aatgtggctg  | 420 |
| cacatctgtc ttctcttccc gctctgataa cagtnaaatc tgaactgctc tggtgtgtgc  | 480 |
| tgcgtatact tctatccana aaagccaagt acatgaaatg gaatacgcct ccaatcggtt  | 540 |
| atccagaaat gtccaaanag gaacaggacg nctacgctcg cacncctgac ctaaccancn  | 600 |
| aatcnnaaac caatctnccc gcaatccctc gggctgaccc ctccaaaact ccnggaaatt  | 660 |
| taaggaaatc cccccccc  | 678 |

&lt;210&gt; 123

&lt;211&gt; 445

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(445)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 123

|  |     |
|--|-----|
| gagggggggng caaaagcgct acttaattag ctgtacgact cgtcatatca tgtggtgat  | 60  |
| cagcatccag atggcataat cggctaatgt cctgggttc agatgtatgc gatgtccggc   | 120 |
| taatgtgaca tcttgcanc tagcttaagg anggtggct agaagacatt gcagaaacag    | 180 |
| gagctcggcc cacangtttc ccaaggctc cacccttgc catctccagg gaagctcgcc    | 240 |
| cagtggcact gaatgcctc ctcagcggag ggtttggat caggctggc aagaactgct     | 300 |
| aatcttgcgc ggactggaac cagctctccg gccttctctg gtccttgggt tctgggtggg  | 360 |
| aagggaaagag ggaaaagaaa gaaaaatctcc nggcananga nggacaccc canacaccga | 420 |
| agacacnccc ccctcctgta actgt  | 445 |

&lt;210&gt; 124

&lt;211&gt; 641

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(641)  
 <223> n = A,T,C or G

<400> 124  
 gagggggggg ncaaagcgct acgttaatta gctgtacgac tcgtcatatc atgtggtgga 60  
 tcccaactaca angttgtcac tatataattan atctatagttn gagtcngtnt tccccatccc 120  
 tgtaaacgaa ttactattg ttggggtagt gtccctactt tcctgattaa ggatctgtgc 180  
 tggggAACAA gcnttgcata ccttataatgt agttaanatt tattaacata tcctcatgan 240  
 ctcaattcaca ctgnanctct cctnaaaaatn gtgtgctcct gttacattan aactaatctg 300  
 aaataaaagac tctcnaatgc tttgtcaacat anttactgttn tgaaggagca gtgttaattt 360  
 agtaccaatt tagcatcgat ttgaaacgca ccttatttga actgtgaata aacactttct 420  
 gcgtaatacta ctgcttacat ccaattcngt gatttaagat actcgtggta tagatacact 480  
 gattgaagtgc cgatataatgc aaaactcctt cataggattt acatgctgat nttagtgnnc 540  
 ntcaatgtt gagtataactt acntaattgc taacgtataa agtattgaan gtnnaatagt 600  
 cagcttcngt gnaaaatnng aaatttagtat ggtncngttc c 641

<210> 125  
 <211> 285  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(285)  
 <223> n = A,T,C or G

<400> 125  
 aggggngcac aaagcgctac gttaatnagc tgtacgaccg tccatatcag gtggggatc 60  
 catatgtccg gtattctctg atgtcangct tattataata gtaccaaccc ttcatctctg 120  
 aaatgtctgg ttctggttcc ctattatata ccagoactga aaatattcgt atcttagnan 180  
 caaaagcatt taaaaagagt taaaaatttta ntcatcacta tgcacttcaa ggggagaagc 240  
 tncactgcnt ncttgagnct angcaagatg cnagcnccct ggaag 285

<210> 126  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 126  
 agggnnntgac aaagcggtca cgttaatnag ctggtaacgac cgtcatatcn ttttgtggat 60  
 ccngaacang tagcctcata atcacaacat ccattagcca cagtaaactg attctgtaac 120  
 tccactggca atgctgattt gtaatggctg cataaaccctt gtgttatcaat ttantttcg 180  
 tttttagacaa aaatctcata ttatacncctg acatctcnaa cttcgataca tgaccaaata 240  
 cgggnagaca ttattcaan atatttacct tacanaaaaa aa 282

<210> 127  
 <211> 634

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(634)  
 <223> n = A,T,C or G

&lt;400&gt; 127

|   |     |
|---|-----|
| acaaaggccc tacgttantic agctggtacg accgtccata tcatgtggtg gatcntgaaa  | 60  |
| anctttgatc ggctgcggtg gaaacgttgt cnngggccggc aagaagagcc gctgtnacaa  | 120 |
| tgtgtcatg agttcagccg aacgcangac ggttctcaca cccgtgctgc ggtgttgcca    | 180 |
| tgtccgcacg ggacaatatac ctggggacccg gtactggtag taactatgtat gcatntgct | 240 |
| gantgtgaat gatctcaact catgccagct gtcacattca tagaattctc gtaatatactc  | 300 |
| ntcgaaaaat ggtaanatgc tgggtctttt gccgtctgt tctatgttta tatcagtccag   | 360 |
| ctgttatgac attctatcag tgggtggctg atccatctct gttacnactt tgactcgct    | 420 |
| cattggcggtt gctatagttcc tcactattgc cagatcaaaa tactgatcac tactaattcc | 480 |
| nacaananac tctggctgga ccactgccc gtcatgtctg tgtcttgcta tcacatttaa    | 540 |
| gctactatta ctgtgttggaa atgcataatc tcacaacnaa gtgcgaaatg ngttccgccc  | 600 |
| ttgaatacnc cctactttgc ccctataaaag gcgg                              | 634 |

<210> 128  
 <211> 180  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(180)  
 <223> n = A,T,C or G

&lt;400&gt; 128

|   |     |
|---|-----|
| caaaggccta cgtaatnag ctgtacgacc gtccatngtc aggtggtgga tccctgttat  | 60  |
| gtcaagaaaa gtaaatcgtc tcttcaataaa ggcctttatt tggacaggt ttatttcctg | 120 |
| atatnatntc ttttatactc ttttctctca gaaanaaaaa agtngtnnnc tcttattgtc | 180 |

<210> 129  
 <211> 567  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(567)  
 <223> n = A,T,C or G

&lt;400&gt; 129

|  |     |
|--|-----|
| acaaaggcgct atgttaactt agctgtacga ccgtccatng tcaggtggtg gatccccc     | 60  |
| tgtgctggat tcataatggaa tctattttaga cagttgagaa taaatttattc tattacaata | 120 |
| atagatgcta atatatataat tatgctgtt ggatatctaa atatttgctc acatcctaa     | 180 |
| tatattttta aaattctaac aatagtactg ttganataaa gttgagccat attganacnc    | 240 |
| tcccanattt gtcctagaaa gttacactgg ttgtctctcc ttatgtctgt ttatccaccc    | 300 |
| tgacgctgccc gctttatatt cttaatgant tggacggaca gtggtatccg atcgtttga    | 360 |
| cgacgttaca ntactnacca tctatacgtc tacttaatttgc acagcagatt tcgtacnct   | 420 |

|  |     |
|--|-----|
| cattaggatc tggccaacn gttggcaaat naccncggan gaagttccng tagtgtcnn      | 480 |
| ctccccctat tgaaacttat gaccnatctt ccttacnca catatcgacc ttcctgacaa     | 540 |
| cnccttttnn aaagaactct tcnccca  | 567 |
| <br>   |     |
| <210> 130  |     |
| <211> 557  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(557)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 130  |     |
| aggggnntcac aaaagcgcta cgtaatnag ctgtacgact cgtcatatca tgggtggat     | 60  |
| cccgccgcgt gcggactgga tgcataactc tgcctgcggc gatgcgcgca tcggcgcccgg   | 120 |
| ggatacgtgg caagcgccgg cccggcgca gccgactct cccancctgg cgtggccacc      | 180 |
| cggccaagca gaatgggtcc tgcagctgcn gtctagcngt ctgcaccaac acgggtggtg    | 240 |
| gtgcagcnna gtctccggaa tccncaaggc ctattnaatt tggggaaa ttanatctca      | 300 |
| actcaatagg ctttccaaa gaactattgc atgatattca acaagtaatt tcttatttca     | 360 |
| atacactccg tatcagaatc atgttcttc tcgatctctt ccattccctcg aacagcctgc    | 420 |
| antgactgtt tcacccatgac aannaataca tccttggat tgggactcag cataactgtc    | 480 |
| aaatatgtca tcnactccna tcnagaataat ctttccgaag ctgtatttga ttcatattaatt | 540 |
| tatccacatt actggat   | 557 |
| <br>   |     |
| <210> 131  |     |
| <211> 655  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(655)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 131  |     |
| agggnggcac aaagcgctat gttactgagc tgcacgnctc gtccattgtc ntgggtggat    | 60  |
| tcntcgatn aggtctgata tacttcctgt gngatcnaga tgnatctncg tagntcccccc    | 120 |
| cgttggatgc tgctcatnac tgctgcattt ccacgatcca ccctgtatgc gctatccctgc   | 180 |
| tatacacaac ncatgatnn gatatggaaat cttccacaat ggaagtgttc tggatgacc     | 240 |
| caccacccatata ncngccg ctgtctgaaa ctcaaaccct tgcctgtnt cagancacga     | 300 |
| tctgttatgt tactgatgaa gaaatggaaat actccaaaa acagtgcctn gcccacatc     | 360 |
| ctacttccng caaatcnaat gctctcttta atcctaaactc ctctccatan aanctacagt   | 420 |
| tactccgtga agccntgaag gaaatgggan agttatagga aactntcactc gttataagcc   | 480 |
| anaatgcntg attaaataaa tcgtcttng tgataacctc atcttcactc ngttataacct    | 540 |
| atcgtaactn canaancctt attgaanttg aattgtnttg aactgcccga aaaaaacgtt    | 600 |
| cttatgttc ccggacccctt gggatcaat aatccaatag cttactcttc ncgcc          | 655 |
| <br>   |     |
| <210> 132  |     |
| <211> 566  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |

<220>  
<221> misc\_feature  
<222> (1)...(566)  
<223> n = A,T,C or G

<400> 132

|   |     |
|---|-----|
| agggtnncac aaagcgctat gttacttagc tgcgtgtc gtcattntca tgggtggat    | 60  |
| tcgagcatca cagctctacg tgggtcactg ctacgtctg caccagacgc tgaagcaaga  | 120 |
| gtacagtgc agtctccaca agcctccag cccatcgag aaacatctcc aaagccaaag    | 180 |
| ggcgcccnaa aaccacngt tacacctgcc ccatcccggg agaaatgacc agaacaagtc  | 240 |
| gctgacactgc tggtaagct ctatccagca ctccctggaa tggaaacat ggcancggaa  | 300 |
| acactacana cacnctcccc tgctggatcg acgtctctcc tctatgcanc tcacgtggac | 360 |
| aaacagttgc acaggaaact ctctctgtcg tggatgtgan ggtctgcca cactacccaa  | 420 |
| aaanctctcc tggccgggtataatgcga aggccgcanc cccnctcccc gntctcgccg    | 480 |
| tccacaagat gntgcacntn ccgtctatt ctccagcac ccancggaa ataagcnccn    | 540 |
| ccatgnccctg ggccctgaaa aaaaaa                                     | 566 |

<210> 133  
<211> 816  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(816)  
<223> n = A,T,C or G

<400> 133

|  |     |
|--|-----|
| agctngggct nacgtataa aacttaagct tggtnaccg agctcggtccactcagtc       | 60  |
| cagtngtggg tggnaattc ctngnagcca ccctnacagc cagtaagnag atatngtagg   | 120 |
| gtaaattgtt aaggnaagt cagcacttac attaagtaa aattgggctc acaaaccgg     | 180 |
| nacacagtna gcattttgtt gccaatttct ggggtggaa tgggtgaaca aacattgctg   | 240 |
| ggaagccaaag tngctnaaca ttgccttggg ttcaaggggg natgggnaaa gtcacccgtt | 300 |
| aaggggatgg gcaatgtcca gtggaaacc caccgcttgc ttgaaggctc tggacttgc    | 360 |
| atccttacca cccaaactcc gtccaaacttg gacaaagccc ttggccgcct tgcctctcca | 420 |
| ggaatgtctt aaaaaattt ggtgggttat tgggttactg gttccttgtt gggcccgaa    | 480 |
| ttggggaaaaa cttgggttgt tctcaaaacc cggttattt ggtgggtca cctttggct    | 540 |
| cccagntca aacgttaca aacggggaaa gtnaaaaatc ttgttgcaaa aattgccacc    | 600 |
| cattnaaaaa gctttggaa ntggaaac tcttccttgg gggggacaaa ttgttgggg      | 660 |
| gctttcaat tgntcaaaaaa aattgttgtt ctgttcaaa agggatgtt nccgttccgt    | 720 |
| ggggccaaac ctgttgctt gggtgaaca gccaaaaaaa ttgnaancc ccaccaant      | 780 |
| ttgggaaagc caagcnttgg gtttcactg gttcc                              | 816 |

<210> 134  
<211> 451  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(451)  
<223> n = A,T,C or G

<400> 134

|             |             |            |             |            |              |     |
|-------------|-------------|------------|-------------|------------|--------------|-----|
| tttgnangag  | agggtcacct  | gggcagccct | gactttgtc   | ccctggcaaa | gggacacctca  | 60  |
| gtgacccttg  | cccttaggaga | gcctctgagc | acgtcagcca  | tgtcgAACCG | ctcaggaagg   | 120 |
| gcagcaagaa  | tttggcttct  | gaccctcgcc | tctctactc   | gccatctgca | ctgggtgtgg   | 180 |
| tttgtgeccat | tttacagatg  | aggaggctgg | ggcatcgacc  | agctgaatgc | tttgtcccag   | 240 |
| gtactgcgt   | agcagagctg  | gcagttgaac | cccggtgtcct | gttgcgtct  | gggggtgggc   | 300 |
| tgcaccctga  | cttgcgtggc  | cagnagcaag | gnttgcacgt  | gacttcgtga | ccgtcaccctca | 360 |
| gctctgcagc  | acatcccgt   | acccanctca | tccaggccgn  | atgcaaacct | gttgcagc     | 420 |
| ganaaaaacca | agtacccgt   | acccanctca | tccaggccgn  | atgcaaacct | gttgcagc     | 451 |

&lt;210&gt; 135

&lt;211&gt; 658

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(658)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 135

|              |             |            |             |             |             |     |
|--------------|-------------|------------|-------------|-------------|-------------|-----|
| gtggtatctg   | ccttcccagg  | aggcaggagt | ggggccccca  | actgatgagc  | tcatggtgca  | 60  |
| ctcttagctt   | ttaagacttg  | tcatacaggg | tgcaataaaa  | caaaatgtgc  | cactaaaaat  | 120 |
| gtactttttt   | ggtatatttt  | gatcttgctg | ttaagagggg  | ctacaattca  | gagaggctgc  | 180 |
| agacacagaa   | atagccctga  | aaagctttct | tctctggcag  | agatttgc    | gtgctgagga  | 240 |
| aatacacacgtt | agtgaagtga  | acagaggaga | aaagcatttc  | tctgaggcac  | accccacccc  | 300 |
| cacccttatct  | gcctaatttg  | atcaaggaaa | gattaactcc  | caggaaaaac  | agactgagat  | 360 |
| cctaattgctt  | taaaggtctg  | actgagaaac | ttctccatag  | gccactgtct  | atcttcctga  | 420 |
| ggcancatgg   | ggggagccccc | tgagagactc | acatcttg    | tggggacagc  | cttgctc     | 480 |
| caagcatacc   | tctctcttctt | ccccattacc | tgaaaacccac | ctcccnaaaa  | ccccagccccc | 540 |
| tattctctct   | gtagcctcag  | gatgtgaaga | aatcttcatc  | attgggcctc  | ttggagctca  | 600 |
| tatttgctgc   | tctgtnttg   | tatataattt | attgcattta  | tgttaatattt | ccttgc      | 658 |

&lt;210&gt; 136

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(478)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 136

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| gaagtctcgc  | gagtataaga  | acagtaacca | gctccggag  | taccagctgg | aaggatgaa  | 60  |
| ctggcttctt  | tttaactgg   | ataacagaaa | aaactgtatt | ttggctgtat | agatgggcct | 120 |
| agggaaaacc  | atccagtcca  | tcacattct  | ttcagaaata | tttctgagag | gaatccacgg | 180 |
| ccctttctc   | attatcgtccc | ctctctccac | catcaactac | tgggagcggg | agttccggac | 240 |
| atggacagag  | atgaatgcca  | ttgtgtacca | cggcagccag | atcagcaggc | agatgatcca | 300 |
| gcagatgaa   | atgggttaca  | gagacgccc  | ggaaaccct  | ttcaggagtc | ttcaagttcc | 360 |
| acgtcgcat   | cacaacnttt  | gaatgatct  | agcagactgc | ccagagtta  | agaagaattc | 420 |
| actggaaactg | tgtggataat  | tggatgaaac | ccccagact  | ggaagaatan | ggaactgc   | 478 |

&lt;210&gt; 137

&lt;211&gt; 612

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(612)  
 <223> n = A,T,C or G

<400> 137

|   |     |
|---|-----|
| gcaggggctc ttgcaaatta acacaaaata ataattaaaa atgaaacgaa attgaggata | 60  |
| ttcttagaaa gggtaagga catgaaatac attactatct gggatttcaa ccttccaaa   | 120 |
| ggtaataaa tccccaaata aaatgtaaat ccaaggctac ctgagaattc catttctgtt  | 180 |
| gcatctttgt tcatgtgag catatgtctt ttcatttga ggactttta aaagagaaga    | 240 |
| gtgacacaca atgcaacatg gacaaggaat gaaaattgct tttagacactg cacttgaac | 300 |
| atacaaacct gggaggtgcc agggtctgac actgtatatt ttttccttgc atctgattct | 360 |
| tccaaacagg atccatgtac tggcaaattt ccctagtgtt ccctggtaag catcaaagta | 420 |
| aaccactggg tggcctcggt atttctacat tggcttctc cattgnttt atacataaaa   | 480 |
| aaaaaaaaaa gaaagaaaac tcactggca ttttacatgg gtttccata ttggcctta    | 540 |
| atcattcagt ttgaaagtaa atcaaagagg aatgaanagt taaagngctt tgaatttggg | 600 |
| gtgaaaactt ca   | 612 |

<210> 138

<211> 478  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(478)  
 <223> n = A,T,C or G

<400> 138

|   |     |
|---|-----|
| gcaggggctc ttgcaaatta acacaaaata ataattaaaa atgaaacgaa attgaggata | 60  |
| ttcttagaaa gggtaagga catgaaatac attactatct gggatttcaa ccttccaaa   | 120 |
| ggtaataaa tccccaaata aaatgtaaat ccaaggctac ctgagaattc catttctgtt  | 180 |
| gcatctttgt tcatgtgag catatgtctt ttcatttga ggactttta aaagagaaga    | 240 |
| gtgacacaca atgcaacatg gacaaggaat gaaaattgct tttagacactg cacttgaac | 300 |
| atacaaacct gggaggtgcc agggtctgac actgtatatt ttttccttgc atctgattct | 360 |
| tccaaacagg atccatgtac tggcaaattt ccctagtgtt ccctggtaag catcaaagta | 420 |
| aaccactggg tggcctcggt atttctacat tggcttctc cattgnttt atacataaa    | 478 |

<210> 139

<211> 597  
 <212> DNA  
 <213> Homo sapien

<400> 139

|  |     |
|--|-----|
| gttatttggt agtttagag atgaggaact aaggaccag ttgctcagt tttcttagct     | 60  |
| agtgaataga gactagacac caagtgtct acgtgcagac ttataactgc tcagcctggc   | 120 |
| acacaaaatg gcaatggcat agtccccaga ctgtggtccc aactgtctct ttccctaacag | 180 |
| ctccccaggg acccacactt ttctgcctt tttcaatct gtacccttga ccctccctcct   | 240 |
| ttttctgctt tgtcagactc cttaggcac ttcataaatt aaccatttcc agggatttcc   | 300 |
| cctcacacat gagttattcc agtggacagg gcagcctcat gggtgcctgt ggagggtgaa  | 360 |
| gggtctgcct ggccgttagt gtgatcacac actcccggtt taaccctgc ctccgtgac    | 420 |

|  |     |
|--|-----|
| acttgctgcc ccacgattta gctgctttgt gttccgtgcc tcctgttgc tggtaactc    | 480 |
| ctgagttggg gggcgtcatt ccctccactg tagttcttcc gcgatgctga atccacccac  | 540 |
| ggtcagcacc actcgaaat acttcacagt cctgttagagg aagacaggc caggttt      | 597 |
| <br>   |     |
| <210> 140  |     |
| <211> 368  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(368)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 140  |     |
| tttacatcta gactccacag acagaaacgt ttcatttta ttgagttat ttgaaatat     | 60  |
| atgaatccct gaccattgt tatcaactgc tgttactcta tcaggacagt tgctgaagtt   | 120 |
| tttgcact aaattaaaa atcaactatc aggttgtccc ttggatgacc tgagatttct     | 180 |
| agagacaaaa gaaatctatt ctccctgatt gaagaaagag tctgagattt tttaaacc    | 240 |
| actgatttgg ggatcagggt gtagccagtg tctcaaactc tccccgtcc ctttttgtt    | 300 |
| ttgctcaagg agtggcctnt gaggncCAA gaattgggt ngttactggt ttatTTGA      | 360 |
| ttaggggg   | 368 |
| <br>   |     |
| <210> 141  |     |
| <211> 674  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(674)  |     |
| <223> n = A,T,C or G   |     |
| <br>   |     |
| <400> 141  |     |
| aatgtcaatc tttgctcggt cagtgaggat gtcgcctgtt gagggaaaaa tagtagctgt  | 60  |
| tgcctatattc cttaactcc cccccccgc ccccccgaat atgtccctg aataaacttt    | 120 |
| gtgggtagtt ttcttcatt cccagaactg ttatgaggtt agttcagaaa ttgcagctt    | 180 |
| cctgatgctc tatgcttga acacacaaaa taatcaaagg tgctcttag tagatccctt    | 240 |
| tccctatcaa aataacagta acacccaatc tgaggcctca agcccaactcc ttgagcaaaa | 300 |
| caaaaaaggg acaggggaga gtttgagaca ctggctacac cctgatcccc aaatcagtgg  | 360 |
| ttaaaaaaaa atctcagact ctttcttcaa tcaggaagaa tagatttctt ttgtctctag  | 420 |
| aaatctcagg tcatccaagg gacaacctga tagttgattt taaatTTAG tgacaaaaaa   | 480 |
| actttcagca actgtcctga taggagtaac caggctagnt ggataaccaa atgggttca   | 540 |
| agggggaaatn tcataatatt tcaaaaaat taaaccttca attaaaaaaa tggaaaaacc  | 600 |
| ggtttctngt gtcctggtgg ggaggttctt aagnatggtt aaaaaaggaa attccccac   | 660 |
| ccaaacnaccc tggg   | 674 |
| <br>   |     |
| <210> 142  |     |
| <211> 669  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <br>   |     |
| <220>  |     |
| <221> misc_feature   |     |

&lt;222&gt; (1)...(669)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 142

|   |     |
|---|-----|
| gttggaaact tantcctcaa tgcaatagtg ttgagatgtg ggaccttaa gtgataatta    | 60  |
| gatcatgagg gattgcctc attcattaaat tattgttatt atctcagggtg agtttagttat | 120 |
| cggagattga aatccgtata aaaagttagt tttgttctct ctgtctctct ctctctctcc   | 180 |
| actctagaat tgtaaaaaac taatctctat tctgcataaaa ttacccagtc tcaggttattc | 240 |
| cattatatta gcagggaaatg gactaagaca ctactttata aaattttgca gtttccaatg  | 300 |
| ttcagctttt ccttgcattcg gcttcatcta catttttctt tgcttggtaa tgatggtaa   | 360 |
| attttcctgt tgtcttcat ttatggctta cactatcaca tgctctctat taattcatgc    | 420 |
| cttctatttc cttctgtgt ttttggaaagc atctctttc atgggctcat tttagctctg    | 480 |
| taagacatat cgaaaactca ctgttattcct cctgcattgca tagagctctg ctgggaaagt | 540 |
| ctccttctgc atgctacgcc ttcccacccaa agacaaggct ttgcttattt gcncattctg  | 600 |
| tttaacgtct gccaaatatg nggtcttgac ncataagaaa actggtttga nccgaaaaan   | 660 |
| aaaattttg   | 669 |

&lt;210&gt; 143

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 143

|   |     |
|---|-----|
| agaccttatt tggtaatctg ctgtcttcca gtgtctctgc attagataacc attactacag  | 60  |
| tagcacttgg atctctcaca tctattccag aaaatgtgtc tactcatgtt tctcagattt   | 120 |
| ttaatatgt actaaaagaa caatcattag cagcagaaag taaaactgta ctacaggaat    | 180 |
| tgattaatgt actcaagact gatcttctaa gttcactgga aatgattttt tcccccaactg  | 240 |
| tgggtcttat actgaaaatc aatagtcaac taaagcatat tttcaagact tcattgacag   | 300 |
| tggccgataa gatagaagat caaaaaaaaaagg aactagatgg ctttctcaat atactgtgt | 360 |
| acaatctaca tgaactacaa gaaaatccat ttgttcctt gttgagtccac aaaagcaatg   | 420 |
| tggaaaccta actgaagacc tgaagacaat aaagcagacc cattcccaagg aactttgcaaa | 480 |
| gttaatgaat ctttggacag a   | 501 |

&lt;210&gt; 144

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 144

|  |     |
|--|-----|
| gatatctcag cacctgactt acacatctta catcctcaag caaactcccc agggcacatt  | 60  |
| tttagttggc cagccatcac cccagacttc tggaaaacaa ctcaccactg ggtcagtgg   | 120 |
| ccaaggaaca ctgggagtca gcacatcttc tgcacaagga caacaaacgc taaaagtcat  | 180 |
| ctctggacag aaaaccacat tggatcacaca ggcagccat ggaggacagg catcttaat   | 240 |
| gaaaatatcc gatagcacgt tgaagactgt gccagccacc tcacagctct cgaagccctgg | 300 |
| aaccacaatg ctgagagtag caggagggt tatcacaact gccacttccc ctgcccgtggc  | 360 |
| cctctcagca aacggtcattt gccaacagtc tgaaggaatg gctncgtgt cttcatctac  | 420 |
| ggncaaagtcc tgtaacgaaa acttctggc agcaacaaag tgtgtgtgan ccaagccacc  | 480 |
| cgtgggaaac ctgcaaggnt  | 501 |

<210> 145  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

&lt;400&gt; 145

ggaaatccgag ccggctaccc cctctccgag cgccagcagg tggcccttct catgcagatg  
acggccgagg agtctgcca cagcccagt gacacaacac caaagcaccc ctcccgatct  
acagtgtgtc agaaggaaac gcccaactct gcctcaaaaa ccaaagataa agtgaacaag  
agaaaacgagc gtggagagac ccgcctgcac cgagccgcca tccgcgggga cgcccgccgc  
atcaaagagc tcatacagcga gggggcagac gtcaacgtca aggacttcgc aggctggacg  
gcgcgtgcacg aggctgtaa ccggggctac tacgacgtcg cgaagcaact gctggctgca  
ggtgccggagg tgaacaccaa gggcctagat gacgacacgc cttttgcacg acgcttgcca  
acaacgggca ctacaagggt gtgaaactgc ttgttgcgtt acnganggaa cccgnacaaa  
acaacaggaa aagcgaagac c

60  
120  
180  
240  
300  
360  
420  
480  
501

<210> 146  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

&lt;400&gt; 146

ggcccgacg cggacaggat tgacagattt atagctctt ctcgattccg tgggtggtgg  
tgcattggccg ttcttagttt gtggagcgat ttgtctgggtt aattccgata acgaacgaga  
ctctggcatg ctaacttagtt acgcgacccc cgagcggtcg gcgtccccca acttctttaga  
gggacaagtgc gcgttcagcc acccgagatt gagcaataac aggtctgtt tgcctttaga  
tgtccggggc tgcacggccg ctacactgac tggctcagcg tgccttacc ctacgcccggc  
aggcgcgggt aaccctttaa accccattcg tgatgggat cggggatttc aattattcccc  
catgaacgan gaattcccg taagtgcggg tcataagctt attccgcact tacctgggaa  
gaagcctttt ggtctccgg ggacnaaaac agctttgtt tgcacgcng gcagcaccgg  
tcgcgcgtc cggtggttac c

60  
120  
180  
240  
300  
360  
420  
480  
501

<210> 147  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

&lt;400&gt; 147

cagcgccgccc gcccccccccc tccagcttcc cggaccatgg ccaacctgga ggcaccc

60

|                      |             |             |            |            |             |     |
|----------------------|-------------|-------------|------------|------------|-------------|-----|
| atcgccatca           | agccggacgg  | cgtgcagcgc  | ggcctggtgg | gcgagatcat | caagcgcttc  | 120 |
| gagcagaagg           | gattccgcct  | cgtggccatg  | aagtccctcc | gggcctctga | agaacacactg | 180 |
| aaggcact             | acattgacct  | gaaagaccga  | ccattttcc  | ctgggctgtt | gaagtagatg  | 240 |
| aactcaggc            | cgttnggc    | catggcttg   | gaggggctga | acgtggtaa  | gacaggccga  | 300 |
| gtatgtctt            | gggagacca   | tccagcagat  | tcaaagccag | gcaccattcg | tggggacttc  | 360 |
| tcattcagg            | ttggcagga   | catcattcat  | ggcagtgtt  | cagtaaaaag | tgctgaaaaa  | 420 |
| gaaatcagcc           | tatggtttaa  | gcctgaagaa  | ctgggttact | acaagtcttt | ggctcatgac  | 480 |
| tgggtctatn           | aataagaagg  | g           |            |            |             | 501 |
| <210> 148            |             |             |            |            |             |     |
| <211> 501            |             |             |            |            |             |     |
| <212> DNA            |             |             |            |            |             |     |
| <213> Homo sapien    |             |             |            |            |             |     |
| <220>                |             |             |            |            |             |     |
| <221> misc_feature   |             |             |            |            |             |     |
| <222> (1)...(501)    |             |             |            |            |             |     |
| <223> n = A,T,C or G |             |             |            |            |             |     |
| <400> 148            |             |             |            |            |             |     |
| actcttagct           | tgtcgccccac | gttaaccggg  | accgggtgtc | tgctcctgtc | gccttcgcct  | 60  |
| cctaattccct          | agccactatg  | cgtgagtgtca | tctccatcca | cgtggccag  | gctgggtgtcc | 120 |
| agattggcaa           | tgcctgctgg  | gagctctact  | gcctggaaca | cggcatccag | cccgtatggcc | 180 |
| agatgccaag           | tgacaagacc  | attggggag   | gagatgactc | cttcaacacc | ttcttcagtg  | 240 |
| agacgggcgc           | tggcaagcac  | gtgccccggg  | ctgtgtttgt | agacttggaa | cccacagtca  | 300 |
| ttgatgaagt           | tcgcaactggc | acctaccggc  | agctcttcca | ccctgagcag | ctcatcacag  | 360 |
| gcaaggaaaga          | tgctgcaat   | aactatgccc  | gagggcacta | caccattggc | aaggagatca  | 420 |
| ttgacccttgt          | gttggaccga  | attcgcaagc  | tggctgacag | tgcaccggc  | ttcagggtt   | 480 |
| cttggttttt           | cacagctttg  | g           |            |            |             | 501 |
| <210> 149            |             |             |            |            |             |     |
| <211> 501            |             |             |            |            |             |     |
| <212> DNA            |             |             |            |            |             |     |
| <213> Homo sapien    |             |             |            |            |             |     |
| <220>                |             |             |            |            |             |     |
| <221> misc_feature   |             |             |            |            |             |     |
| <222> (1)...(501)    |             |             |            |            |             |     |
| <223> n = A,T,C or G |             |             |            |            |             |     |
| <400> 149            |             |             |            |            |             |     |
| cggccgggca           | ggaatagaag  | atgaacaaac  | ccataacacc | atcaacatat | gtgcgtgcc   | 60  |
| tcaatgttgg           | actaattagg  | aagctgtcag  | attttattga | tcctcaagaa | ggatggaaga  | 120 |
| attagctgt            | agctattaaa  | aaaccatctg  | gtgatgatag | atacaatcaa | gtttcacata  | 180 |
| aggagattt            | aagcattctt  | caaactggaa  | aaagtccac  | ttcttgaata | ctgttgact   | 240 |
| gggggcacca           | caaattggac  | agttggtgat  | cttggatc   | ttttgatcca | aatatgattt  | 300 |
| ttgctcctgc           | gagtctttt   | ctcccagatg  | ctgttccaa  | actgctaata | cactaccc    | 360 |
| taaagaagct           | ataacagttc  | agcaaaaaca  | gatgccttc  | tgtgacaaag | acaggacatt  | 420 |
| gatgacaccc           | gtgcanaatc  | ttgaacaaag  | ctatatgcca | cctgactcct | caagtccana  | 480 |
| aaataaaaagt          | ttaaaagtta  | g           |            |            |             | 501 |
| <210> 150            |             |             |            |            |             |     |
| <211> 501            |             |             |            |            |             |     |
| <212> DNA            |             |             |            |            |             |     |

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 150

|  |     |
|--|-----|
| cacgacacagga tactgatatt ctgtcagctg aaaagcatgc ttgatatagt agagcatgat  | 60  |
| ctccctcaaacc tcacttgcc ctctgtcact tattttagat tagatggcag catacctcct   | 120 |
| ggtcagaggc attccattgt tccccggtt aataatgatc catctataaga cgttctgtta    | 180 |
| cttaccactc acgttggtgg cctgggactt aatttgcacag ggcgtgacac agtagtattt   | 240 |
| gtggagcatg actggaantc tatgcgagat ctacaagcca tggaccgggc ccatcgccatt   | 300 |
| gggcagaaac gtgtgtttaa cgtatcccat tgataaccag aggaacattt gaagaaaaaaa   | 360 |
| taatggggtt gcagaaaattt caagatgaaac catagcgaat ctgttattttt ccaagagaat | 420 |
| tcttagtttgc canacatggg ggactgatca gctttcttga atctgttttac tcttggataaa | 480 |
| gggatggcaaa aagcagaaaaa a  | 501 |

<210> 151

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 151

|  |     |
|--|-----|
| atggaggggt gtgtgtctaa cctaattggc tgcaaccctgg cctacagccg gaagctggaa | 60  |
| gagttgaagg agagtattct gccgataaaa tncctgnnta ctacaactga ccaggacagc  | 120 |
| agaactgcat tgcactgggc atgctcagct ggacatacag aaattgttga atttttgttgc | 180 |
| caacttggag tgccagtgaa tgataaaagac gatgcaggtt ggtctcctct tcatattgcg | 240 |
| gcttcgtctg gccggatgaa gattgtaaaa gcccctctgg gaaaagggtgc tcaagtgaat | 300 |
| gctgtcaatc aaaatggctg tactccctta cattatgcag cttcgaaaaa caggcatgag  | 360 |
| atcgctgtca tgttactgga aggccggggtt aatccagatg ctaaggacca ttatgaggct | 420 |
| acagcaatgc accggcagc agccaagggtt aacttgaaga tgattcatat cttctgtac   | 480 |
| tacaaaagcat ccacaaacat c   | 501 |

<210> 152

<211> 501

<212> DNA

<213> Homo sapien

<400> 152

|  |     |
|--|-----|
| gcccgccgaa gcccgcggcag aactgtactc tccgagaggc cgttttcccc tccccgagag   | 60  |
| caagtttatt tacaaatgtt ggagtaataa agaaggcaga aaaaaatgag ctgggttttg    | 120 |
| gaagaatggaa aagaaggact gcctacaaga gctttcaga aaattcaaga gcttgaagga    | 180 |
| cagcttgaca aactgaagaa gaaaaggcag caaaggcagt ttctgttgc cagtcgtcag     | 240 |
| gctgcgtgc agaacaatggaa acagaagggtt gaaaatggaa aaaccggagg tacaaacctgg | 300 |
| aaaagggaga atcaaaatgtt gatggaaata tgtggaaatc tggagaaaaac taagcagaag  | 360 |
| atttctcatg aacttcaagt caaggagtc caagtgaatt tccaggaagg acaactgaat     | 420 |
| tcaggcaaaa aacaataga aaaactggaa caggaactta aaagtgtaaa tctgacttgc     | 480 |
| aagaagcaac aactggcattc t   | 501 |

<210> 153  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 153

|             |     |
|-------------|-----|
| agagagagag  | 60  |
| gagcgagaga  | 120 |
| gtgtgagcga  | 180 |
| gaaagaataa  | 240 |
| aaggaaagaa  | 300 |
| gattttctct  | 360 |
| atgtatataa  | 420 |
| agatggccac  | 480 |
| tttagcaaac  | 501 |
| ggacaggctg  |     |
| acaacgcaag  |     |
| cctcagtacc  |     |
| aacgggctcg  |     |
| gcagcagccc  |     |
| gggcagtgcc  |     |
| gggcacatga  |     |
| acggattaag  |     |
| ccacagcccc  |     |
| gggaacccgt  |     |
| cgaccattcc  |     |
| catgaaggac  |     |
| cacgatgcca  |     |
| tcaagctgtt  |     |
| cattgggcag  |     |
| atcccccgca  |     |
| cctggatgag  |     |
| aaggaccta   |     |
| agcccttctt  |     |
| cgaggagttt  |     |
| gcaaaaatct  |     |
| acgagttac   |     |
| ggttctgaag  |     |
| gacaggttca  |     |
| caggcatgca  |     |
| caaaggctgc  |     |
| gccttcctca  |     |
| cctactgcga  |     |
| gcgtgagtc   |     |
| gcgtgaagg   |     |
| cccagagcgc  |     |
| gctgcacgag  |     |
| cagaagactc  |     |
| tgcccccgt   |     |
| gaacccggcc  |     |
| cgatccnagg  |     |
| tgaagccttg  |     |
| cgacacgcga  |     |
| gaaccggagga |     |
| gatagaaaact |     |

<210> 154  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 154

|              |     |
|--------------|-----|
| tcccttcctg   | 60  |
| tgtgaggccg   | 120 |
| gctgaggca    | 180 |
| cttgcttttg   | 240 |
| ctgtttctgc   | 300 |
| ccctgggtta   | 360 |
| acattcaaga   | 420 |
| tggtacatgc   | 480 |
| tgaagcctt    | 501 |
| tctcgccctt   |     |
| tgagtccgaa   |     |
| tgaagttgtt   |     |
| gtttaattt    |     |
| tccgtttgac   |     |
| aatatttgtt   |     |
| gcagtgacat   |     |
| actttactat   |     |
| caaatggatg   |     |
| gttagatgcaa  |     |
| ttgatccaac   |     |
| cagaaagcaa   |     |
| aaagtagaaag  |     |
| ctcagaaaca   |     |
| ggcagaaaaaa  |     |
| ctaataatggc  |     |
| aaattgggag   |     |
| tgaaaaatgt   |     |
| gaagctctca   |     |
| gaatatgaaa   |     |
| tgagttttgc   |     |
| tgctcatctt   |     |
| gtagaccctc   |     |
| ttaatatgca   |     |
| tgttacttgg   |     |
| agtgatatacg  |     |
| caggtttttaga |     |
| tgatgtcatt   |     |
| acggatctga   |     |
| aagacacagt   |     |
| catcttacct   |     |
| atcaaaaaga   |     |
| aacattttgtt  |     |
| tgagaattcc   |     |
| aggcttctgc   |     |
| agcctccaaa   |     |
| aggtgntctt   |     |
| ctctatggc    |     |
| ctccagctgt   |     |
| gtaaaaacgt   |     |
| tgattgccaa   |     |

<210> 155  
 <211> 601  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(601)  
 <223> n = A,T,C or G

<400> 155

|   |                        |     |
|---|------------------------|-----|
| aggaggagga acagcaggag gaggaactca aagtactgct   | ggccctggag ggatatctca  | 60  |
| gcacctgact tacacatctt acatcctcaa gcaaactccc   | cagggcacat ttttagttgg  | 120 |
| ccagccatca cccagactt ctggaaaaca actcaccact    | gggtcagttg tccaaggAAC  | 180 |
| actgggagtc agcacatctt ctgcacaagg acaacaaACG   | ctaaaAGTC tctctggaca   | 240 |
| gaaaaccaca ttgtttacac aggccccc tggaggacag     | gcatctctaa tgaaaataATC | 300 |
| cgatagcacc ttgaagactg tgccagccac ctcacagCTC   | tCGAAGCCTG gaaccACAA   | 360 |
| gctgagagta gcaggAGGGG ttatcacaac tgccacttcc   | cctGCCGTG CCCTCTCAGC   | 420 |
| aaacggctct gcacaacAGT ctgaagGAAT ggCTCCGTG    | tCTTCATCTA CGGTCAAGTC  | 480 |
| tgttaacgaaa acttctggc agcagcaAGT gtgtgtGAGC   | cAGGCCACCG TGGGAACCTG  | 540 |
| caaggntgcc accccccCGT cgtcagcGCC acgtncctcg   | TGCTACACCA AACCCCATCT  | 600 |
| C   |                        | 601 |
| <210> 156                                     |                        |     |
| <211> 501                                     |                        |     |
| <212> DNA                                     |                        |     |
| <213> Homo sapien                             |                        |     |
| <220>   |                        |     |
| <221> misc_feature                            |                        |     |
| <222> (1)...(501)                             |                        |     |
| <223> n = A,T,C or G                          |                        |     |
| <400> 156                                     |                        |     |
| caagaaagga gaaagagAGC tcaaaaatcgg agacAGAGTA  | ttggTTGGTG GCACTAAGGC  | 60  |
| tggtgtAGTC cggtttCTTG gggAGACCGA ctttGCCAAG   | ggggAGTGTG TGCGCGTGG   | 120 |
| gttagatGAG ccacttGGGA agaatGATGG CGCTGTTGCT   | ggaACAAGGT atTTTCAGTG  | 180 |
| tcaacccaaa tatgCTTGT tcgCTCCTGT ccacAAAGTT    | accAAGATTG GCTTCCCTTC  | 240 |
| cactacacca gccaAAAGCCA aggccAAACGC agtGAGGCGA | GTGATGGCGA CCACGTCGCG  | 300 |
| cagCCTGAAG CGCAGCCCTT CTGCCTCTTC CCTCACTCC    | ATGAGCTCAg TGGCCTCCTC  | 360 |
| tgtgAGGAGC angCCCAGTC ggACAGGACT attGACTGAA   | ACCTCCTCCC GTTACGCCAG  | 420 |
| gaagatCTCC ggtaccACTG CCCTCCANGA ggCCCTTGAA   | GGAAAAACAN CAGCACATTG  | 480 |
| agcanTTGC TGGCNGGAAC C                        |                        | 501 |
| <210> 157                                     |                        |     |
| <211> 501                                     |                        |     |
| <212> DNA                                     |                        |     |
| <213> Homo sapien                             |                        |     |
| <220>   |                        |     |
| <221> misc_feature                            |                        |     |
| <222> (1)...(501)                             |                        |     |
| <223> n = A,T,C or G                          |                        |     |
| <400> 157                                     |                        |     |
| caccCTCTC GTCGCTTCGG ccAGTGTGTC gggCTGGGCC    | CTGACAAGCC ACCTGAGGAG  | 60  |
| aggCTCGGAG CCGGCCCCGG ACCCCGGCGA ttGCGCCCG    | CTTCTCTCTA GTCTCACGAG  | 120 |
| gggtttCCCG CCTCGCACCC CCACCTCTGG ACTTGCTTT    | CCTCTCTCTC TCCGCGTGTG  | 180 |
| gaggGGAGCCA GCGCTTANGC CGGAGCGAGC CTGGGGGCCG  | CCCGCCGTGA AGACATCGCG  | 240 |
| GGGACCGATT CACCATGNAG GGCGCCGGCG GNCGAACGA    | CAAGAAAAG ATAAGTTCTG   | 300 |
| AACGTGAAAG AGAAAAGTCT CGAGATGCAg CCANATCTCG   | GCGAAGTAAA GAATCTGAAG  | 360 |
| TTTTTATGA GCTTGCTCAT CAGTTGCCAC TTCCACATAA    | TGTGAGTTG CATCTTGATA   | 420 |
| ANGCCTCTG TGATGAGGCT TACCATCAGC TATTTGCGTG    | TGAGGAAACT TCTGGATGCT  | 480 |
| GGTGATTGG ATATTGAAGA T                        |                        | 501 |

<210> 158  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 158  
 acggggtcac ccacacggtg cccatctacg agggctacgc cctccccac gccatcctgc 60  
 gtctggacct ggctggccgg gacctgaccc actacacctcat gaagatcctc actgagcgag 120  
 gctacagctt caccaccacg gccgagcggg aaatcgtgcg cgacatcaag gagaagctgt 180  
 gctacgtcgc cctggacttc gaggcaggaga tggccaccgc cgcatcctcc tcttctctgg 240  
 agaagagcta cgagctgccc gatggccagg tcatcaccat tggcaattag cggttccgg 300  
 gtccggagggc gctgttccag cttcccttcc tgggtatgg atcttgcgnn attcacgana 360  
 ccaccccaa ctccatcatg aagtgtgacg tggacatccg caaaagacctg tacgccaaca 420  
 ccgtgctgtc gggcggnacc accatgtacc cggcattgc cgacaggatg caaaaaggag 480  
 atcaccggcc cttggcgccc a 501

<210> 159  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 159  
 cgagcgggac tggctgggtc ggctggctg ctgggtgcgag gagccgcggg gctgtgctcg 60  
 gcccacaaagg ggacacgcgcg tgggtggccg aggatgctgc ggggcggtag ctccggcgcc 120  
 octagctgtt gactgctgcg cctgtcctca cacagccca ggcgggctcg gcgcacagtc 180  
 gctgtccgc gcgcgcgcgc ggcggcgctc caggtgctga cagcgcgaga gagcgcggcc 240  
 ctcaggagca aggcaaatgt atgacaacat gtccacaatg gtgtacataa aggaagacaa 300  
 gttggagaag cttacacagg atgaaattat ttcttaagaca aagcaagtaa ttcagggct 360  
 ggaagctttg aagaatgagc acaattccat ttacaaagt ttgctggaga cactgaagt 420  
 tttgaagaaa gatgatgaaa gtaatttgtt ggaggagaaa tcaaacatga tccggaagt 480  
 actggagatg ttggagctcg g 501

<210> 160  
 <211> 487  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(487)  
 <223> n = A,T,C or G

<400> 160  
 aagatctcag tctgactctt ttggaaacaag tcaaactgcc catgatgttg ctgatcagcc 60  
 aaggcctgga tcagagggga gtttctgtgc atcttcaaacc tctccaatgc actcccaagg 120  
 ccagcagttc tctgggtgtct cccaaacttcc tggacctgtc ccacttcagg agtaactgt 180  
 acacagaata ctgtaaatat ggcccaagca gatacagaga aattgagaca gcccggagaag 240  
 ttacgtgaaa tcattctcca gcagcaacag cagaagaaga ttgcaggtcg acaggagaag 300  
 gggtcacagg actcaccgcg achtgcctca tccanggcct cttaaacact ggcaaccaag 360

|   |     |
|---|-----|
| agaatggta acccaggctt ttaaccaana acccccacct tcctttcct ggggaaacat     | 420 |
| ttaggttttc ctgggtggcc ctttcctttt anggaacctt anaatttgct tggttttcc    | 480 |
| ccnaaaa   | 487 |
| <br>  |     |
| <210> 161   |     |
| <211> 501   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(501)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 161   |     |
| gttccccggc ccagtcgggt cctgcagcgag tctgcctcct cttcaacat gacagatgcc   | 60  |
| gctgtgtcct tcgccaagga ctccctggca ggtggagtgg ccgcagccat ctccaagacg   | 120 |
| gcggtagcgc ccatcgagcg ggtcaagctg ctgctgcagg tgcagcatgc cagcaagcag   | 180 |
| atcaactgcag ataaggcata caaaggcatt atagactgcg tggccgtat tcccaaggag   | 240 |
| cagggagttc tgccttcgt gcgcggtaac ctggccaatg tcatcagata cttccccacc    | 300 |
| caggctctt acttcgcctt caaagataaa tacaagcaga tcttcctgg tggtgtggac     | 360 |
| aagagaaccc agtttggcg ctacttgcg gggaatctgg catcggtgg tgccgcangg      | 420 |
| gccacatccc tgcgtttgt gtaccctttt gattttggcc gtaccctgtc ancancgtat    | 480 |
| gtggggtaaa agctggagct g   | 501 |
| <br>  |     |
| <210> 162   |     |
| <211> 501   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 162   |     |
| aaaaaaagaaa aagaactaca acggcagaaaa gaaaaggaaa aagaactaca aaagatgaaa | 60  |
| gaacaagaaa aggaatgtga gctggagaag gaaaggaaa aatttagagga gaaaattgaa   | 120 |
| cccagagaac ctaattttaga gcccatggta gaaaaacaag aaagtaaaa cagctgtat    | 180 |
| aaagaggagg aaccctttt cactagacaa gacagcaatc gcagtggaaa ggaagccaca    | 240 |
| ccagtggcgc atgaaacaga accagaatca gggctcaac ctggccggc tggattatct     | 300 |
| ggctatttca aacagttca gaagtttta cctccacgt tccagggca gcagaacag        | 360 |
| atgaaacagc agcagttggca gcagcagcaa cagcaaggtg tacttccaga ctgttccttc  | 420 |
| caaccgtcca gtagtactgt cccttcctccc cacacagacc tctttcagc ctatgcagcc   | 480 |
| tctcctcagc atttggcttc t   | 501 |
| <br>  |     |
| <210> 163   |     |
| <211> 501   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(501)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 163   |     |
| gagtcgacc agttgcctga cgagagctct tcagcaaaag cccttgtcag tttaaaagaa    | 60  |
| ggaagtttat ctaacacgtg gaatgaaaag tacagtttt tacagaaaac acctgtttgg    | 120 |

aaaggcagga atacaagctc tgctgtggaa atgcctttc agaaattcaa aacgaagtcg 180  
 actttttct gatgaagatg ataggcaaat aaatacaagg tcacctaaaa gaaaccagag 240  
 gggttcaatg gttcacaga aatttacagc aacaatgtca acaccagata agaaaagttc 300  
 acagaagatt ggtttcgat tacgtaatct gctcaagctt cctaaagcac ataaaatggtg 360  
 tatatacagag tggttctatt caaatataga taaaccactt ttgaaagggtg ataatgactt 420  
 ttgtgtatgt ctaaaggaat cttttctaattt ttgaaaacaa gaaagttaac aagagtagaa 480  
 tggggaaaaaa ttcngcggct t 501

<210> 164  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 164

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| cgggtgcgcg | cccacgaccg  | ccagactcga | gcagtctctg | gaacacgctg | cggggctccc  | 60  |
| gggcctgagc | caggctgtt   | ctccacgcag | gtgtccgcg  | cgccccgttc | agccatgtcg  | 120 |
| tccggcatcc | atgttagcgct | ggtaactgga | ggcaacaagg | ggcatcggt  | tggccatcggt | 180 |
| ggcgacatcg | tgccggctgt  | tctcggggga | cgtgtgcctc | acggcgccgg | acgtgacgct  | 240 |
| gggccaggcg | gccgtacagc  | agctgcaggc | ggagggcctg | agcccgcgt  | tccaccagct  | 300 |
| ggacatcgac | gatctgcaga  | gcatccgcgc | cctgcgcgac | ttcctgcgca | aggagtacgg  | 360 |
| gggcctggac | gtgctggta   | acaacgcggg | catgccttc  | aaggttgcgt | atcccacacc  | 420 |
| ctttcatatt | caagctgaag  | tgacgtgaa  | aacaaatttc | tttggtaccc | ganatgtgtg  | 480 |
| cacagaatta | ctccctctaa  | t          |            |            |             | 501 |

<210> 165  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 165

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| ccggtaagg  | accgcgaggc  | cttccagagg | ctcaacttcc | tgtaccagg  | gagtctgcga  | 60  |
| caaggcccc  | acggggacgg  | tgctcggcgt | cccagagtga | ctgctccct  | cccgaggcc   | 120 |
| ccccatttgt | tccttgccta  | gaccccccgg | aaccangcgc | tggcgagg   | ttactgctac  | 180 |
| actgagagga | ccattgcgaa  | gcggctcg   | ttgggggg   | atccctcggt | gaagaggact  | 240 |
| ctctgtcgag | gctgcgtt    | cctccctcg  | ccgggcctca | cctgcaccca | ccgcccagaga | 300 |
| cgctgcagg  | gacagcgctg  | gaccgtacag | acgtgcctaa | catgccagcg | cagccaacgc  | 360 |
| tnnctcaatg | atcccngca   | tttactntgg | ggagacnggn | ctgaggccca | actcgggagc  | 420 |
| caagcagatt | ccaaaccact  | acaacccttg | ccaaacacag | cccactccat | ttcagaccgc  | 480 |
| cttcctgagg | agaaaaatgca | g          |            |            |             | 501 |

<210> 166  
 <211> 412  
 <212> DNA  
 <213> Homo sapien

```

<220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

<400> 166
atgtccaagc cggtgacca cgtcaagcg cccatgaacg cttcatgtt gtggcgcg 60
gctcaggccc gcaagatggc ccaggagaac cccaaatgc acaactcgaa gatcagcaag 120
cgcttggcg cggatggaa actgctaca gagtcggaga agcggccgtt catcgacgag 180
gccaagcgctc tacgcgccat gcacatgaag gagcacccccg actacaagta ccggccgcgg 240
cgcaagccca agacgctgct caagaaggac aagttcgct tcccggtgcc ctacggcctg 300
ggcggcgtgg cggacgcccga gcaccctgctg ctcaaggcgg ggcggggct gcacgcgggg 360
gcggggcgccg gnctggtgcc tgagtcgctg ctgcacaatc ccgagaaggc gg 412

<210> 167
<211> 501
<212> DNA
<213> Homo sapien

<400> 167
aaatgcaagt ttagtggag aaagaattac aatctgttt taatgagata aaaaaactca 60
cctcccttat agatggcaaa gttccaaaag atttgccttg taatttggaa ttggaaaggaa 120
agattactga tcttcagaaa gaactaaata aagaaatgg aagaaaaatg aagcttgcg 180
ggaagaagtc attttgttt cagaattgaa atctttacct tctgaagtag aaaggctgag 240
gaaagagata caagacaaat ctgaagagct ccatataata acatcagaaa aagataaatt 300
gttttctgaa ttagttcata aggagagtag agttcaaggt ttacttgaag aaattggaa 360
aacaaaaagat gacctagcaa ctacacagtc gaattataaa agcactgatc aagaattcca 420
aaatttcaaa acccttcata tggactttga gaaaaatgtt aagatggtcc ttgaggagaa 480
tgagagaatg aatcagggaa t 501

<210> 168
<211> 501
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 168
ggggcccgcg gagctcgcc caggctcctg ggaaaggacg gggagtgtt ccggggagca 60
gctgctccat tgtcctcgaa ggccccgatc gggctaggcc gacggcctcc ctcccttcac 120
ctttcccttc ctggccgggt tcggccggcg gcgatgtact tgcggccacg cctgaaaaggc 180
gactctccctg attcaagatg accaacgaaag aacctttcc caagaagggtt cgattgatg 240
aaacagactt caaaggatg gcaagagatg agttaattct aagatggaaa caatatgaag 300
catatgtaca agcttggag ggcaagtaca cagatctaa ctctaattgt gtaactggcc 360
taagagatgc tgaagaaaaa ctaaagcaac aacagcagga gtctgcacgc agggaaaaca 420
tccttgaat gcgactagca accaaggaac aagagatgca agagtgtact acttaaatcc 480
atcacctcaa gcaagtccan c 501

<210> 169
<211> 501

```

<212> DNA  
 <213> Homo sapien

<400> 169

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| gctgtcgccc  | ggtcccgccc  | cggcgatgt   | tccctggcac | tccctgagta  | gcggcagctt  | 60  |
| atcccccgcc  | cgctagcccc  | ccctggtccc  | cggctcgctc | gctggctggc  | gcggcccccgg | 120 |
| cccccgctcg  | cgtcgcccc   | gccgcgggtgg | aggcgcgca  | gggggacgcg  | gccggggatg  | 180 |
| agcggattgc  | gggtgaactc  | gccgcccggg  | ggcccgcgca | agccgtgagc  | cgctgctttt  | 240 |
| ctccgagtcg  | ccgccccgtcc | cttggatttg  | agatcatgtc | catccacatc  | gtggcgctgg  | 300 |
| ggaacgaggg  | ggacacatc   | caccaggaca  | accggccgtc | ggggcttatac | cgcaacttacc | 360 |
| tggggagaag  | ccctctggtc  | tccggggacg  | agagcagctt | gttgctgaac  | gcggccagca  | 420 |
| cggtcgccgcg | tccgggttcc  | accgagttac  | aggccagtgc | gtttggaaat  | gtcaaagctg  | 480 |
| gtggtccacg  | actgtcccg   | c           |            |             |             | 501 |

<210> 170

<211> 501  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 170

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| gcattccttt | ggcgccccg  | gtgtttggc  | cttgcctgt   | acgggtggaa  | aagaaaaatgg | 60  |
| ccttgctgt  | ctacaaccgg | ggctgcggc  | agcgcttcg   | tcctgagacc  | aattccgacg  | 120 |
| atgcttgcac | ataccaccca | ggtgttccgg | tctttcacga  | tgcattaaag  | ggtttgtctt  | 180 |
| gctgtaaag  | aagaacaact | gattttctg  | atttcttaag  | cattgttaggc | tgtacaaaaag | 240 |
| gtagacataa | tagtggaaag | ccacctgagc | cagtccaaacc | tgaagtcaag  | actactgaga  | 300 |
| agaaggagct | atgtgaatta | aaacccaaat | ttcangaaca  | catcattcaa  | gcacctaaac  | 360 |
| cagtagaagc | aataaaaaga | ccaagcccag | atgaaccaat  | gacaaatttg  | gaattaaaaa  | 420 |
| tatctgcctc | cctaaaacaa | gcacttgata | aacttaact   | gtcatcaggg  | aatgaagaaaa | 480 |
| atnagaaaga | agaagacnat | g          |             |             |             | 501 |

<210> 171

<211> 601  
 <212> DNA  
 <213> Homo sapien

<400> 171

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| agcgacatat | cttgaactcc | acagccttga  | tgacttctac | ataggaaagt | attttggagg  | 60  |
| agtgttggag | tattttatga | ttcaagcctt  | aaatcagaag | acaagtggaa | aaatgaagaa  | 120 |
| aagaaaaatg | agcaactct  | tcatggat    | tagaccacct | caacttgaac | aaccagaaaa  | 180 |
| aatgcctgtc | ttaaaggctg | aagcgtcaca  | ttataactct | gactttaata | acttgctgtt  | 240 |
| ctgctgccag | tgtgtggacg | tggtatttt   | caaccccaat | ttaaagaaag | ttgttagaggc | 300 |
| ccacaagatc | gttctctgcg | ctgtaaagcca | tgtttcatg  | ctgctttca  | atgtgaagag  | 360 |
| tcccactgac | attcaggatt | ccagtatcat  | ccgaactacc | caggatctt  | ttgctataaa  | 420 |
| cagagatact | gcatttccag | gtgctagcca  | tgaatcttca | ggcaaccac  | cattacgagt  | 480 |
| cattgttaaa | gacgcctct  | tctgttctg   | tttatcagac | atccttcgt  | tcatttattc  | 540 |
| aggtgtttt  | cagtggaaag | aatttggaaag | agatatcagg | aagaagtta  | aagattctgg  | 600 |
| g          |            |             |            |            |             | 601 |

<210> 172

<211> 501  
<212> DNA  
<213> Homo sapien

&lt;400&gt; 172

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| gaccgtttaa  | aaaactggta  | tccagctcac | atagaagaca  | ttgactacga  | ggaaggaaaa  | 60  |
| gtactcatcc  | atttcaagcg  | ttggaaccat | cgttatgatg  | agtggttctg  | ctgggacagt  | 120 |
| ccttattttac | gccctttaga  | gaaaatacag | ctgagggaaag | agggcttgca  | tgaagaggat  | 180 |
| ggatcttcgt  | aatttcaaat  | aatgagcag  | gtccttgctt  | gctggtctga  | ttgtcgaaaa  | 240 |
| tacccggcca  | aagtcaactgc | tgttaacaag | gatggtaactt | acactgtgaa  | attttatgat  | 300 |
| ggagtagttc  | agactgtcaa  | acatattcat | gtcaaagctt  | tttccaaaga  | tcagaatatt  | 360 |
| gtgggtaatg  | ctaggcctaa  | agaaacagat | cacaaaagtc  | tttcatcatc  | tcctgataaaa | 420 |
| cgagagaagt  | ttaaagaaca  | gagaaaagca | acagtgaatg  | tgaagaaaaga | caaagaagat  | 480 |
| aaacccttaa  | agacagaaaaa | g          |             |             |             | 501 |

&lt;210&gt; 173

<211> 501  
<212> DNA  
<213> Homo sapien

&lt;400&gt; 173

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| gcgacctatc  | ttgaactcca  | cagccttcat  | gacttctaca | tagggaaagta | ttttggagga  | 60  |
| gtgttggagt  | attttatgat  | tcaaggccta  | aatcagaaga | caagtgaaaa  | aatgaagaaa  | 120 |
| agaaaaatga  | gcaactcctt  | tcatggaaatt | agaccacctc | aacttgaaca  | accagaaaaaa | 180 |
| atgcctgtct  | taaaggctga  | agcgtcacat  | tataactctg | acttaaataa  | cttgctgttc  | 240 |
| tgctgcccagt | gtgtggacgt  | ggtattttac  | aaccccaatt | taaagaaaaat | tgttagaggcc | 300 |
| cacaagatcg  | ttctctgcgc  | tgttaaggcat | gttttcatgc | tgctttcaa   | tgtgaagagat | 360 |
| cccactgaca  | ttcaggattc  | cagtatcatc  | cgaactaccc | aggatcttt   | tgctataaac  | 420 |
| agagatactg  | cattttccagg | tgcttagccat | gaatcttcag | gcaacccacc  | attacgagtc  | 480 |
| attgttaaag  | acgccttctt  | c           |            |             |             | 501 |

&lt;210&gt; 174

<211> 501  
<212> DNA  
<213> Homo sapien

&lt;400&gt; 174

|             |             |             |            |             |            |     |
|-------------|-------------|-------------|------------|-------------|------------|-----|
| ccccggggagg | cggccgtcg   | ggcgacgccc  | cgaagatgcc | gttggaaactg | acgcagagcc | 60  |
| gagtgcagaa  | gatctgggtg  | cccggtggacc | acaggccctc | tttgcggcaga | tcctgtggc  | 120 |
| caaagctgac  | caactcccccc | accgtcatcg  | tcatgggtgg | cctccccccc  | cggggcaaga | 180 |
| cctacatctc  | caagaagctg  | actcgctacc  | tcaactggat | tggcgcccc   | acaaaagtgt | 240 |
| tcaacgtcg   | ggagtatcgc  | cggggaggctg | tgaagcagta | cagctcctac  | aacttcttcc | 300 |
| ccccccgacaa | tgaggaagcc  | atgaaagttc  | ggaagcaatg | tgccttagct  | gccttgagag | 360 |
| atgtcaaaag  | ctacctggcg  | aaagaagggg  | gacaaattgc | gttttcgat   | gccaccaata | 420 |
| ctactagaga  | gaggagacac  | atgatccttc  | attttgccaa | agaaaatgac  | tttaaggcgt | 480 |
| ttttcatcga  | gtcggtgtgc  | g           |            |             |            | 501 |

&lt;210&gt; 175

<211> 501  
<212> DNA  
<213> Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 175

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ccaacatgac | cgaacgaaga | agggacgagc | tctctgaaga | gatcaacaac  | ttaagagaga | 60  |
| aggcatgaa  | gcagtcggag | gagaacaaca | acctgcagag | ccaggtgcag  | aagctcacag | 120 |
| aggagaacac | cacccttcga | gagcaagtgg | aaccacccc  | tgaggatgag  | gatgatgaca | 180 |
| tcgagctcg  | cggctgtca  | gcagctgctg | ccccacccc  | tccaatagag  | gaagagtgcc | 240 |
| cagaagacct | cccagagaag | ttcgatggca | acccagacat | gctggctct   | ttcatggccc | 300 |
| agtgcagat  | tttcatggaa | aagagcacca | gggatttctc | agttgatctgt | gtccgtgtct | 360 |
| gttcgtgac  | aagcatgatg | accggccgtg | ctgcgttgg  | gcctcagcaa  | agctggagcg | 420 |
| ctccactacc | tgatgcacaa | ctaccactt  | tcatgatgga | aatgaagcat  | gtctttgaag | 480 |
| accctcanag | gcgagagggt | g          |            |             |            | 501 |

&lt;210&gt; 176

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 176

|             |             |            |              |             |             |     |
|-------------|-------------|------------|--------------|-------------|-------------|-----|
| ggcggaaagag | gtgatttatt  | atatggttgt | tacactcgcc   | cacaataaaa  | cacagaaata  | 60  |
| gtccagaatg  | tcacagggtcc | agggcagagg | accaacatgg   | gcattttgtt  | tatgagcaag  | 120 |
| gtgggtctca  | gaggtgatcg  | gcgatcagag | ggcgatgaag   | ttcttagatcc | attgagacaa  | 180 |
| gctctagaca  | gtagcatgca  | gtcccacaac | ttgttaccaggc | atccccagcg  | tctggcattc  | 240 |
| catgtttctg  | ctcctgtggc  | ctccacgggt | caacaagcta   | gcggtttact  | tggacactctg | 300 |
| cctcatctt   | cttctttgc   | gcttcagcct | gcgcattcgc   | ttcttcctcc  | acttggctct  | 360 |
| catggcgcag  | aggtttcc    |            |              |             |             | 378 |

&lt;210&gt; 177

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 177

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| gcgcaggagc | tggacctgga  | ggcgccgcgc  | cgacagcagc  | agccatggag | gacgagatgc | 60  |
| ccaagactct | atacgtcggt  | aacctttcca  | gagatgtgac  | agaagctcta | attctgcaac | 120 |
| tcttagcca  | gattggacct  | tgtaaaaaact | gcaaaatgtat | tatggataca | gctgaaatg  | 180 |
| atccctattt | ttttgtggag  | tttcatgagc  | atcgatcgatc | agctgcagca | ttagctgcta | 240 |
| tgaatggacg | gaagataatg  | gttaagggaa  | tcaaagtgaa  | ttgggcaaca | acccctagca | 300 |
| gtcaaaagaa | agataacaagc | aatcatttcc  | atgtctttgt  | tggtgatctc | agccagaaaa | 360 |
| ttacaactga | agatataaaaa | gtgtcttttgc | caccatttgg  | aagaatatca | gatccccgag | 420 |
| tggtaaaaga | catggcaaca  | gaaagtcta   | aggatatgg   | ttttgtctcc | ttttcaaca  | 480 |
| aatggatgc  | tgaaaacgca  | a           |             |            |            | 501 |

&lt;210&gt; 178

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 178

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| agccccgggc | caggccgcgg | ccggggcagg | agcgcagggg  | ctttgttatg | cacctaaagc | 60  |
| catattggaa | gctccagaag | aaagagcacc | ccccggaaatg | cagcaggaa  | acgcagagaa | 120 |
| ctcctatgaa | ccacccaaag | gtgttaatg  | atgaaacatg  | caaagctagc | cacataacat | 180 |
| caagtgtctt | tccttcagcc | tctctcggt  | aagcatcattc | tcgaaagcc  | tttggatcc  | 240 |

|                      |              |             |             |             |             |     |
|----------------------|--------------|-------------|-------------|-------------|-------------|-----|
| tttctccaaa           | tgttctgtgc   | agtatgagtg  | ggaagagtcc  | tgttagagac  | agcttgaatg  | 300 |
| ttaaaaccaa           | aaagaatgca   | ccatctgcaa  | cgatccacca  | gggcgaagaa  | gaaggaccac  | 360 |
| ttgatatctg           | ggctgttgtg   | aaacctggaa  | ataccaagga  | aaaaattgca  | ttctttgcat  | 420 |
| cccaccagtg           | tagtaacagg   | ataggatcta  | tgaaaataaa  | aagttcctgg  | gatattgatg  | 480 |
| ggagagctac           | taagagaagg   |             |             |             |             | 501 |
| <210> 179            |              |             |             |             |             |     |
| <211> 501            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <400> 179            |              |             |             |             |             |     |
| cgggactagg           | agcgccggcg   | ggccggcgcc  | agagctgtcc  | ggctgcgcgg  | tggcccgaaa  | 60  |
| ggcccgccgcg          | gcagggcaag   | cagcgcggcc  | tcggcctatg  | cgaccgggtgg | cgccggcgccg | 120 |
| gcttctgcct           | ggagaggatt   | caagatgacc  | aacgaagaac  | ctcttcccaa  | gaagttcga   | 180 |
| ttgagtgaaa           | cagacttcaa   | agttatggca  | agagatgagt  | taattctaag  | atggaaacaa  | 240 |
| tatgaagcat           | atgtacaagc   | tttggagggc  | aagtacacag  | atcttaactc  | taatgtatgt  | 300 |
| actggcctaa           | gagagtctga   | agaaaaaacta | aagcaacaac  | agcaggagtc  | tgcacgcagg  | 360 |
| gaaaacatcc           | ttgtaatgca   | actagcaacc  | aaggacaaga  | agatgcaaga  | gtgtactact  | 420 |
| caaattccagt          | acctcaagca   | agtccagcag  | cccgagcggtt | gccaactgag  | atcaacaatg  | 480 |
| gtagacccag           | cgatcaactt   | t           |             |             |             | 501 |
| <210> 180            |              |             |             |             |             |     |
| <211> 571            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <220>                |              |             |             |             |             |     |
| <221> misc_feature   |              |             |             |             |             |     |
| <222> (1)...(571)    |              |             |             |             |             |     |
| <223> n = A,T,C or G |              |             |             |             |             |     |
| <400> 180            |              |             |             |             |             |     |
| gagcgtaccg           | ggtttctcc    | atgctgttcc  | ttactctccct | cttttgcacc  | cctcccat    | 60  |
| ccctcgcccc           | tctttaaaaa   | tttctccccc  | ctccagttcg  | ctgtccggcc  | ctcacatgtg  | 120 |
| tganaggggc           | agtgtgccgt   | taatggccgt  | gccgggcacc  | ggggccgtct  | ggtagtgctg  | 180 |
| ggacatgtga           | agtctctgtgg  | ggccggcgaaa | ttccggcacc  | tccggcgccgg | ggagatacat  | 240 |
| gtgtatcatgt          | tccccgggt    | ccccggcctg  | gcagggcgcc  | ctggagtgg   | aggaagaggt  | 300 |
| aaccacaggg           | gggctggagc   | tggcctcgga  | cttgaccacc  | gaacccatgg  | agccaanagc  | 360 |
| catgccaggg           | gtccctgtct   | gcgagtagga  | catgtgttag  | gtggggcagc  | cgttcatgt   | 420 |
| ggtctgcgag           | ctggcatgg    | agttgtactg  | cagggcgctc  | acgtcgtaac  | ggtgcgtgg   | 480 |
| ctgcatctgc           | gctgcgcgt    | gcccatttag  | gcccgggtgc  | tngggtagc   | ccaactggc   | 540 |
| ctgcatcatgt          | ctgtactgccc  | gntgctccac  | c           |             |             | 571 |
| <210> 181            |              |             |             |             |             |     |
| <211> 501            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <400> 181            |              |             |             |             |             |     |
| tgagaccgccc          | aagatggtgg   | ttggcgcgtt  | ccctatggcg  | aagctgctat  | acttggccat  | 60  |
| ccggcagggtc          | agcaagccgc   | ttgccaaccc  | tattaaggag  | ggccggccccc | gaagcgagtt  | 120 |
| cttcaagacc           | tatatactgccc | tcccgccggc  | tcaactgtat  | cactgggtgg  | agatgcggac  | 180 |
| caagatgcgc           | atcatggcgt   | tccggggcac  | ggtcatcaag  | ccgctgaacg  | aggaggcgcc  | 240 |

|  |  |
|--|--|
| agccgagctg ggcgcagagc tgctggcga agccaccatc ttcatcgtag gcggcggctg<br>cctagtgtcg gactactggc gccaccagagc gcagcagcgc cacaaggagg aggaggcagcg<br>tgctgcctgg aacgcgcgtgc gggacgaggt gggcacctg ggcgtggcgc tggaaagcgct<br>gcaggcgcag gtgcaggcgg cgccgccaca gggccacctg gaggaactgc gcacagaact<br>gcaagaggtg cgcccccact c  | 300<br>360<br>420<br>480<br>501                            |
| <br>   |  |
| <210> 182  |  |
| <211> 501  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 182  |  |
| ccccagcaga catgtttgcc aaggccttgc gggtaagtc caacacggcc atcaagggg<br>cgacaggaa aaagcttcga gctgatgtga caactgcattt ccccacccctt ggaactgatc<br>aagtctctga gtttagtacat ggaaaggagg agctcaacat tgtgaagttt tatgctcaca<br>aaggggatgc agtgcactgtg tacgtgatgtg gtggtaaccc catcctctt gaactggaga<br>aaaatctgtt tccaacagtgt tacacgctgt ggtccatattcc tggatcttgc ccaaccttta<br>caacatggcc tctggtgctc gagaaactgg tagggggagc agatttgatg ctgcctggac<br>tggatgtgcc ccctgtctgtt ctgcctcagg tacagaaggg cgacctctgt gccatttctt<br>tggtggggaa cagagccctt gtagccattt gagttgcagc catgtccaca gctgagatgc<br>tcacgtcagg cctgaaggaa a | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>501 |
| <br>   |  |
| <210> 183  |  |
| <211> 501  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 183  |  |
| atctgctcac ttttagcactc tggcaattaa acagaacccc cttctggcag aagcttattc<br>gaatttgggg aatgtgtaca agggaaagagg gcagttgcag gaggcaattt agcattatcg<br>acatgcattt cgtctcaaacc ctgatttcat cgatgttat attaacctgg cagccgcctt<br>ggtagcagcg ggtgacatgg aaggggcagt acaagcttac gtctctgtc ttcagtacaa<br>tcctgattt tactgtgttc gcagtgaccc ggggaacctt ctcaaaagccc tgggtcgctt<br>ggaaagaagcc aaggcatgtt atttggaaagc aattgagacg caaccgaact ttgcagtagc<br>ttggagtaat cttggctgtt tttcaatgc acaagggaa atttggcttg caattcatca<br>cttggaaaag ctgtcaccct tgacccaaac tttctggatg ottatatcaa ttttaggaaat<br>gtcttggaaaag agcacgcatt t  | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>501 |
| <br>   |  |
| <210> 184  |  |
| <211> 501  |  |
| <212> DNA  |  |
| <213> Homo sapien  |  |
| <br>   |  |
| <400> 184  |  |
| atttctccca ggagaaaagcc atgttcagtt cgagcgc当地 gatcgtaag cccaatggcg<br>agaagccgga cgagttcgag tccggcatct cccaggctct tctggagctg gagatgaact<br>cgacacctaa ggctcagtc agggagctga atattacggc agctaaggaa attgaagttt<br>gtgggtggcg gaaagcttcc ataatctttt ttcggatcc tcaactgaaa tctttccaga<br>aaatccaagt ccggcttagta cgccaaatgg agaaaaagtt cagtgaaaag catgtcgct<br>ttatcgctca gaggagaatt ctgcctaagc caactcgaaa aagccgtaca aaaaataagc<br>aaaagcgtcc caggagccgt actctgacag ctgtgcacga tgccatccctt gaggacttgg<br>tcttcccaag cggaaattgtg ggcaagagaa tccgcgtcaa actagatggc agccggctca<br>taaagggttca tttggacaaa g      | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>501 |

<210> 185  
<211> 460  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(460)  
<223> n = A,T,C or G

&lt;400&gt; 185

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| gcacaaaatg | gcggccggcg  | cggcggcg   | tggctgca   | gggtcgca   | ctcccgcgg   | 60  |
| agcggccgc  | gccccggat   | ctggggcg   | accctcagg  | tcgcagggg  | tgctgatcg   | 120 |
| ggacaggctg | tactccggg   | tgctcatcac | cttgagaac  | tgccctctgc | ctgacgacaa  | 180 |
| gctccgttcc | acggctcca   | tgtcgagcg  | cctcgacacc | gacacagaga | ccgacacctcg | 240 |
| cgtgggtggc | tgcgagctca  | tccaggcg   | cggtagctcg | ctccgcctgc | cgcagggtgg  | 300 |
| catggctacc | gggcagggtgt | tgttccagcg | gttcttttat | accaagtct  | tctgtgaagca | 360 |
| ctccatggag | catgttcaa   | tggcctgtgt | ccacctggct | tccaagatag | aagangcccc  | 420 |
| aagaccatac | gggacgtcat  | aatgtgttt  | caccgccttc |            |             | 460 |

&lt;210&gt; 186

<211> 401  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(401)  
<223> n = A,T,C or G

&lt;400&gt; 186

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| cgtttttgg  | gccggttctg | gagtggctgg | cggcgccgc   | tgggtgtccg | cccagtgc   | 60  |
| gaggacgcag | gccttggcac | cgaaggccgg | catcagaggc  | aaccccgccg | ctcctgc    | 120 |
| cgtcggggc  | ccctcgggg  | ccagcccttc | gcggggctgc  | tgccaaaaaa | cctcagtgc  | 180 |
| gaggagctgg | ttgatgcgt  | gcgggcagcc | gtgggtggacc | gaaaaggacc | tctagtgc   | 240 |
| ttgaacaagc | cacagggtct | accagtgaca | ggaaaaccag  | gagagctgac | gttggctca  | 300 |
| gtgctgccag | agctgagcca | gtccctangg | ctcagggagc  | aggagctca  | ggttgtccga | 360 |
| ncatctggga | agtaagtgg  | anggtgaca  | ggaagctang  | a          |            | 401 |

&lt;210&gt; 187

<211> 376  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(376)  
<223> n = A,T,C or G

&lt;400&gt; 187

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gcatccgccc  | tgtctggag  | gtggggggcg | cgcctctgn  | cagccgcccc  | gtctgggaag | 60  |
| tggggagccc  | cactgcccgg | ctgccacccc | gtctggagg  | tgtacccaac  | agctcattga | 120 |
| gaacggggca  | tgtatgacat | ggcggttttg | tcgaatagaa | aaggggggaaa | tgtggggaaa | 180 |
| agaaaagagag | atcagattgt | tactgtgtct | gttagaaag  | aagttagacat | aggagactcc | 240 |

|                      |              |             |             |             |             |     |
|----------------------|--------------|-------------|-------------|-------------|-------------|-----|
| attttgttct           | gtactaagaa   | aaattcttct  | tccttggat   | gctgttaatc  | tataaccta   | 300 |
| cccccaaccc           | cgtgcctct    | gaaacatatg  | ctgtgtcaac  | tcagggttaa  | atggattaag  | 360 |
| ggcggtgcaa           | gatgtg       |             |             |             |             | 376 |
| <210> 188            |              |             |             |             |             |     |
| <211> 376            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <400> 188            |              |             |             |             |             |     |
| aacctggagc           | gcacccatcat  | ccccatcaag  | ccggacggcg  | tgcagcgccg  | cctggtggc   | 60  |
| gagatcatca           | agcgcttcga   | gcagaaggga  | ttccgcctcg  | tggccatgaa  | gttctccgg   | 120 |
| gcctctgaag           | aacacctgaa   | gcagcactac  | attgaccctga | aagaccgacc  | attttccct   | 180 |
| gggctgtga            | agtacatgaa   | ctcagggccg  | gttgtggca   | tggcttgga   | ggggctgaac  | 240 |
| gtggtaaga            | caggccgagt   | gtgcttggg   | gagaccaatc  | cagcagattc  | aaagccaggc  | 300 |
| accattcgtg           | gggacttctg   | cattcagggtt | ggcaggaaca  | tcattcatgg  | cagtgattca  | 360 |
| gtaaaaagtg           | ctgaaa       |             |             |             |             | 376 |
| <210> 189            |              |             |             |             |             |     |
| <211> 501            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <400> 189            |              |             |             |             |             |     |
| cccctaccgc           | ggagcagcac   | catgtcgccg  | ccggcgccca  | aagtcaatc   | aaaggagctc  | 60  |
| aactccaacc           | acgacggggc   | cgacgagacc  | tcagaaaaag  | aacagcaaga  | agcgattgaa  | 120 |
| cacattgatg           | aagtacaaaa   | tgaaatagac  | agacttaatg  | aacaagccag  | tgaggagatt  | 180 |
| ttgaaatgt            | aacagaaaata  | taacaaactc  | cgccaaaccat | ttttcagaa   | gaggtcagaa  | 240 |
| ttgatcgcca           | aaatccaaa    | ttttgggtt   | acaacatttgc | tcaaccatcc  | acaagtgtct  | 300 |
| gcactgcttgc          | gggaggaaga   | tgaagaggca  | ctgcattatt  | tgaccagat   | tgaagtgaca  | 360 |
| gaatttgaag           | atattaaatc   | agtttacaga  | atagatttt   | attttgcata  | aaatccttac  | 420 |
| tttggaaaata          | aagtctctc    | caaagaattt  | catctgaatg  | agagtggta   | tccatcttcg  | 480 |
| aagtccacccg          | aatcaaattg   | g           |             |             |             | 501 |
| <210> 190            |              |             |             |             |             |     |
| <211> 501            |              |             |             |             |             |     |
| <212> DNA            |              |             |             |             |             |     |
| <213> Homo sapien    |              |             |             |             |             |     |
| <220>                |              |             |             |             |             |     |
| <221> misc_feature   |              |             |             |             |             |     |
| <222> (1)...(501)    |              |             |             |             |             |     |
| <223> n = A,T,C or G |              |             |             |             |             |     |
| <400> 190            |              |             |             |             |             |     |
| aagtctgaa            | gattcatttt   | tgtctgccat  | tataaattat  | actaatagct  | ctacagtcca  | 60  |
| ctttaagtgg           | tcccctacat   | atgttattata | tatggcatgc  | cggttatgtat | tgtccaaacca | 120 |
| gtacagaccc           | gacatcagcc   | ctacagagcg  | cacacataaa  | gtcattgcag  | tcgtcaacaa  | 180 |
| gatggtgagc           | atgatggagg   | gtgtcatcca  | gaaacagaag  | aatattgcag  | gggcacttgc  | 240 |
| cttctggatg           | gcaaattgcatt | ctgaacttct  | caacttcatt  | aagcaagacc  | gagaccttag  | 300 |
| tcggatcaca           | ctggatgctc   | aagatgttt   | agcacatttgc | gttcaatgg   | catttaata   | 360 |
| cttgggtcac           | tgtctcaat    | cagaacttaa  | taattacatg  | ccagccttc   | tagatgaccc  | 420 |
| tgaagagaac           | agtctgcaac   | gaccaaaaat  | agatgtgtg   | ctgcacacgc  | tcacaggagc  | 480 |
| catgtncctg           | ctacgacgct   | g           |             |             |             | 501 |

<210> 191  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 191
ttgtgcgtgc tcagccacta cccttcttn gnccacttgc cganagtgtt tgtatactct 60
caaggcgcctg gnggactgtct gtatgtggcg ccttctggc aagaaactgg gcacccctcg 120
aggcgtacaa agggacacca tggcggcgat cttaacttgc tcgctgtgg tagaggagaa 180
gtcaagtggcc cttctgcattt accttcgaga gattgaggcc tggatctatc gattgctgctg 240
ctccccagta cccgtctctg ggcagaagcg agtagacatc gaggtcctac cccaagagct 300
ccagccagct ctgacccttg ctcttccaga cccatctcga ttccaccctag tggatttccc 360
actgcacctt cccttggAAC ttgttaggtgt ggacgcctgt ctccagntgc taacctgcatt 420
tctggtagag cacaaggcgg cgctacagtc ccgagactac aatgcactct ccatgtctgt 480
gatggcatnc atggcaatga t 501

<210> 192  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 192
tttganttga accagaagct ccaggaagaa aaacataaaa gcataactga ggcacttagg 60
agacaggagc agaatataaa gagtttttag gagacctatg accgaaagct caagaatgaa 120
cttctaaact tccacaggct gcatgggttc tgccctggctt tggaaatcct catatgactt 180
tggcaggtgt tggagtttgg aggcttctcg ccacaggagt gtttctattt cctttggaa 240
ccaaaagggc agctggtaac agctgggaaa gggaaatgaa actgtgaaaa tgtgcctttt 300
ggtagttgtat atccggatat aatgtcttgc gcagttggct ctccaggactg tgcttagtcc 360
ctgagcacaa aagttttac cttgggttggg ggtggcaga tggtaggttggatggaaag 420
tgaccgtctg attatcattt gggatttagt ctgttgtgtc ctgtgtaaat ttaatttacc 480
cctttgtct ttgtgtcagt t 501

<210> 193  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 193

|  |     |
|--|-----|
| agnttctcgc tctcgctgc ctgcccgtc cttgtctgc tcgcgcttc gtcgcgcctc      | 60  |
| tcctcgagga tcgaggggac tctgaccaca gcctgtggct gggaaaggag acagaggcgg  | 120 |
| cggcggtca gggaaacga ggctgcagt gtggtagtag gaagatgtcg ggcgaggacg     | 180 |
| agcaacagga gcaaactatc gctgaggacc tggtcgtac caagtataag atggggggcg   | 240 |
| acatcgccaa cagggactt cggtccttgg tggaaagcatc tagctcaggt gtgtcggtac  | 300 |
| tgagcctgtg tgagaaaggt gatgccatga ttatgaa aacagggaaa atctcaaga      | 360 |
| aagaaaaagga aatgaagaaa ggtattgtt ttcccaccag catttcggt aataactgtg   | 420 |
| tatgtcactt ctccccttg aagagcgacc aggattatat tctcaaggaa ggtgacttgg   | 480 |
| taaaaattga ctttgggtc c   | 501 |
| <210> 194  |     |
| <211> 560  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <220>  |     |
| <221> misc_feature   |     |
| <222> (1)...(560)  |     |
| <223> n = A,T,C or G   |     |
| <400> 194  |     |
| ggtttcactc tcacaaactc cttgaatttc ttctctttat tcttttcatt gtctttgt    | 60  |
| gttggggAAC tggcanagac ccgttcctg gtcagggtct cctggctggg cttgtctgaa   | 120 |
| gctgaagggc ccctgtttg gacatgcctc tttccgggc tctcttctgg ctccagtgtac   | 180 |
| ttctccattc catggaaata cttcatgtga tagtgcaca gtttggctt gcggaaaaat    | 240 |
| tttaaacagt ccacaactt gcatctaaac ttatggtcta ggtcgacagc tgggtgcatta  | 300 |
| natgacccaa aatcatctgt tttctaaaaa gtatttgtt cttccacagt cgaaatctct   | 360 |
| tgttaattcca caagggaga agtcggttct gttttcatcg tttttctcc cattgtatggg  | 420 |
| cagttcaact ccaaggctgc agccccggat ccattcccaa aggagnggca agtcaagtgc  | 480 |
| natganacctt ggccagcttc caaagcagac ttcaactgac cttcttcaga ttccttggta | 540 |
| ctanacaacg tgtcttgcaa  | 560 |
| <210> 195  |     |
| <211> 582  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |
| <400> 195  |     |
| ggcacctggg gagaaatgga tggagaaggg acctggctgg aaagccttg ccccgctgt    | 60  |
| ctgctccgccc cataagagga cccctgaaat gtccctgtca gtttgttcaa gtccctgtg  | 120 |
| tgtatggaaatg tgcctctcgc cttaccgtg tgagaatacc tgggtgtgg cagcaggtat  | 180 |
| tttggtattt gacctgtcca aagacgact gataacctta taatgtaaaca gaaaaggatca | 240 |
| gaaaatattt agcaagtata agtgtggagc attaaagca agatgaacat ctcggaaagc   | 300 |
| agctgtggaa gccctaactc tgcagataca tctagtact ttaaggact ttggacaaaa    | 360 |
| ctaaaagaat gtcatgatag agaagtacaa gtttacaag taaaagtaac caagctaaaa   | 420 |
| caggaacgaa tcttagatgc acaaagacta gaagaattct tcacaaaaaa tcaacagctg  | 480 |
| aggaacagc agaaagtct tcatgaaacc attaaagttt tagaagatcg gttaaagagca   | 540 |
| ggcttatgtg atcgctgtgc agtaactgaa gaacatatgc gg                     | 582 |
| <210> 196  |     |
| <211> 401  |     |
| <212> DNA  |     |
| <213> Homo sapien  |     |

<220>  
 <221> misc\_feature  
 <222> (1)...(401)  
 <223> n = A,T,C or G

<400> 196

|                       |                        |                       |     |
|-----------------------|------------------------|-----------------------|-----|
| aaaccaaaga atggattgaa | gagaagaatc aagctctaaa  | cacagacaat tatggacatg | 60  |
| atctcgccag tgtccaggcc | ctgcaacgca agcatgaggg  | cttcgagagg gaccttgcgg | 120 |
| ctctcggtga caaggtaaac | tcccttggtg aaacacgcaga | ggcctgatc cagtcccatac | 180 |
| ccgagtcagc agaagacctg | caggaaaagt gcacagagtt  | aaaccaggcc tggagcagcc | 240 |
| tggggaaacg tgcagatcag | cgcaaggcaa agttgggtga  | ctcccacgac ctgcagcgct | 300 |
| tccttagcga ttccgggac  | ctcatgtctt ggatcaatgg  | aatacggggg ttggtgtcct | 360 |
| catatgagct anccaaggat | gtcaccggag ctgangatt   | g                     | 401 |

<210> 197  
 <211> 457  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(457)  
 <223> n = A,T,C or G

<400> 197

|                        |                        |                        |     |
|------------------------|------------------------|------------------------|-----|
| agtttcccg accatggcca   | acctggagcg cacttcatn   | gccatcaagc cggacggngt  | 60  |
| gcancgcggc ctggggcg    | agatcatcaa gcgcctngan  | cagaaggat tccgcctcnt   | 120 |
| ggccatgaan ttccctccggg | cctctgaana acacctgaag  | cagcaactaca ttgacctgaa | 180 |
| agaccgacca ttcttccctg  | ggctggtgaa ntacatgaac  | tcagggccgg ttgtggccat  | 240 |
| ggctctggag gggctgaacg  | tggtaagac aggccgagtg   | atgcttgggg agaccaatcc  | 300 |
| agnagattca aagccaggca  | ccattcntgg ggacttctgc  | attcaggttg gnangaacat  | 360 |
| nattcatggn agtgattcan  | taaaaaagtgc tgaaaaanaa | atcancctat ggnttaagcc  | 420 |
| tgaagaactg gttgactaca  | agtcttgnec tcatgac     |                        | 457 |

<210> 198  
 <211> 474  
 <212> DNA  
 <213> Homo sapien

<400> 198

|                       |                       |                       |     |
|-----------------------|-----------------------|-----------------------|-----|
| aggctgaacc cgaggagatg | aaccctttaa ctaaggtgaa | gctgatcaac gagctgaatg | 60  |
| aacgagaggt ccagcttggg | gtggccgata aggtgtcctg | gcactccgag tacaaggaca | 120 |
| gcgcctggat cttcctggga | gggcttcctt atgaactgac | tgaaggggac atcatctgtg | 180 |
| tgttctcaca atatggggag | attgttaaca ttaatctcg  | gcgggacaag aaaactggga | 240 |
| aatccaaagg attctgttc  | ctctgctatg aagaccagag | gagcacaatt ctggccgtcg | 300 |
| acaattttaa tgggatcaag | atcaaaggaa gaactatccg | agtggatcat gtgtctaact | 360 |
| atcgggctcc taaggactca | gaagaaatag atgatgtgac | cagacaactc caggagaagg | 420 |
| gctgtggggc tcgtaccccc | tcaccaagtt tgtctgagag | ctctgaagat gaaa       | 474 |

<210> 199  
 <211> 574  
 <212> DNA  
 <213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(574)  
<223> n = A,T,C or G

<400> 199

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gagaagaaac  | aggaagaaga | agaaacgatg | cagcaagcga | catggtaaa   | atacacattt | 60  |
| ccagttAAC   | atcaggTTG  | gaaacaaaaa | ggtGAAGAGT | acagAGTGAC  | aggATATGGT | 120 |
| ggTGGAGCT   | ggATTAGTA  | aactCATGTT | tataGGTTG  | ttCCTAAATT  | gccAGGCAAT | 180 |
| actAATGTG   | attACAGAAA | gtCGTTAGAA | gGAATGTGA  | aggAGCTTT   | agATTCTGAC | 240 |
| agtGATAAAC  | cctGCAAGGA | agaACCAATG | gaAGTAGACG | atGACATGAA  | aACAGAGTC  | 300 |
| catGTAATT   | gtCAGGAGAG | ttCTCAAGTA | gATGTGGTCA | atGTTAGTGA  | ggGTTTCCAT | 360 |
| ctaAGGACTA  | gtTACAAAAA | gAAACACAAA | tCATCCAAC  | tagATGGACT  | tCTTGAAGG  | 420 |
| agaATTAAAC  | agTTACACT  | gGAAGAAAAA | cAGCAGCTCG | aaaaAAATCAA | gtTGGAGGGT | 480 |
| ggaATTAAAGG | gtATAAGGAA | agACTTCTAC | aaATTCTCA  | aaaaATCTCT  | ctGAATCACC | 540 |
| agtaATAACC  | gAAAGCAAAA | gaANGGTGTC | agAG       |             |            | 574 |

<210> 200  
<211> 522  
<212> DNA  
<213> Homo sapien

<400> 200

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| tccATAACCT | tATGGAGAGA | aAGGACTT    | tgACATGGCT | tgATAACATT | tCTGTTACAT | 60  |
| ttCTTTCTCT | gacGGACTTG | cAGAAAATG   | aaACTCTGGA | tcACCTGATT | agtCTGAGTG | 120 |
| ggGCAGTCCA | gCTCAGGCA  | ctCTCCAATA  | acCTAGAGAC | tCTCCTCAAG | cGGGACTTCC | 180 |
| tCAAACCTCT | tCCCCTGGAG | ctCAGTTTT   | atTTGTTAA  | atGGCTCGAT | cCTCAGACTT | 240 |
| tACTCACATG | ctGCCTCGTC | tCTAAACAGT  | gGAATAAGGT | gATAAGTGCC | tGTACAGAGG | 300 |
| tGTGGCAGAC | tGCATGTA   | AAATTGGGCT  | ggCAGATAGA | tgATTCTGTT | cAGGACGCTT | 360 |
| tGCACTGGAA | gAAGGTTAT  | ttGAAGGCTA  | tTTTGAGAAT | gAAGCAACTG | gAGGACCATG | 420 |
| aAGCCTTGA  | aacCTCGTCA | tTAATTGGAC  | acAGTGCCAG | agtGTATGCA | ctTTACTACA | 480 |
| aAGATGGACT | tCTCTGTACA | ggGTCAAGATG | actTGCTGCA | aa         |            | 522 |

<210> 201  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 201

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| atCTCCGCC  | ggtTCGGCCC  | gcCTGCCTCC | actCCTGCCT  | ctACCATGTC | catCAGGGTG | 60  |
| accCAGAACT | cctACAAAGT  | gtCCACCTCT | ggCCCCCGGG  | cTTCAAGCAG | ccGCTCCTAC | 120 |
| acGAGTGGG  | ccGGTTCCCG  | catCAGCTCC | tCGAGCTCT   | cccGAGTGGG | cAGCAGCAAC | 180 |
| tTTCGCGGT  | gcCTGGGGGG  | cgGCTATGGT | ggGGCCAGCG  | gCATGGGAGG | catCACCGCA | 240 |
| gtTACGGTCA | accAGAGCT   | gCTGAGCCCC | ctTGTCCCTGG | aggTGGACCC | caACATCCAG | 300 |
| gCCGTGCGCA | cccAGAGAA   | ggAGCAGATC | aAGACCTCA   | acaACAAAGT | tGCCTCCTTC | 360 |
| atAGACAAAG | tACGGTTCT   | ggAGCANCAG | aACAAAGATG  | tGGAGACCAA | gtGGAGCCTT | 420 |
| ctTGCAGCAG | cAGAAAGACGG | ctCGAAGCAA | catGGACAAC  | atGTTCNAAA | gCTACATCAA | 480 |
| caACCTTAGG | cGNAGCTGA   | a          |             |            |            | 501 |

<210> 202  
<211> 501  
<212> DNA  
<213> Homo sapien

<400> 202

|  |     |
|--|-----|
| gcgttctgtg gagagagtgc gaggtcaggc catgaacttg ggagatggtt taaagcttga    | 60  |
| aactaaattha ctggatggaa aaaccaagct aatattgtct ccatatgaac ataaatcaaa   | 120 |
| aattttctgtg aagatggaa ataaggccaa gattgcaaaa tgtcctttaa gaacaaaaac    | 180 |
| tgggcacatt ctaaaatcaa cacaagatac ttgtattggg agtggaaaaac ttttgcggaa   | 240 |
| gaagccagtt ggttcagaaa catcacaggc aaaaggtgaa aaaaatggaa tgacttttc     | 300 |
| atccactaag gatttatgtt aacaatgtat agataaagac tgtcttcata tccagaaaaga   | 360 |
| gatttcacctt gcaactccta atatgcagaa gactagaaac accgtaaaata catctcttagt | 420 |
| aggttaaacag aagcctcaca aaaaacacat cacagctgaa aacatgaaga gcagtttgtt   | 480 |
| gtgtctaaca caagaccaac t  | 501 |

<210> 203  
<211> 395  
<212> DNA  
<213> Homo sapien

<400> 203

|   |     |
|---|-----|
| cttcatcat tcctacatca tgcttatcg tttcattata cacttgc                   | 60  |
| cactttgtc ctgccttca agggattgca cagctacttc attacagtaa cagaagagat     | 120 |
| tccttcgtt cagaacttag aactggccaa ggccaaatcg cagctctat atgagcgtct     | 180 |
| tctcagaaga aaacagctac gaacacagaa agacaaccat cttagggaaa tggatgtttaga | 240 |
| agctcgactt actgaactat gtgaagaagt taagaaaata gagaatcccg atgaactggc   | 300 |
| agaacttata aatatgaatc ttgcgcaact ttgctcaattt ttgatggctt tatggggaca  | 360 |
| gtttctggaa gttataacgc tacacgaaga actaa                              | 395 |

<210> 204  
<211> 501  
<212> DNA  
<213> Homo sapien

<400> 204

|  |     |
|--|-----|
| aggtcaggca gaaattggag agggggctca aaagctgctg cggcccaaca gcttgagact  | 60  |
| ggcaagtgc tcagatgcag agtcagactc tcgggcaagc tctcccaact ccaccgtctc   | 120 |
| caacaccaggc accgagggtc tcggggcat catgtctttt gccagcagcc tctatcgaa   | 180 |
| ccacagtacc agtttcagtc tttcaaacct cacactgccc accaaaggtg cccgagagaa  | 240 |
| ggccacgccc ttccccagtc taaaaggaaa caggaggcg ttagtggatc agaagtcatc   | 300 |
| tgtcattaaa cacagccaa cagtggaaag agaacctcca tcacccagg gtcgatccag    | 360 |
| caattcttagt gagaaccaggc agttcctgaa ggagggtgtg cacagctgc tggacggcca | 420 |
| gggagttggc tggctcaaca taaaaagggt ggcggctg ctggagagcg agcagctgca    | 480 |
| agtctttgtc ctgagcaac t   | 501 |

<210> 205  
<211> 501  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(501)

<223> n = A,T,C or G

<400> 205

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cagaagtgc   | gcgggtggcg | cggctggtt  | cggccggcg  | gcgggctggc | ggagatggag | 60  |
| gatcttgttc  | aagatgggt  | ggcttaccca | gctaccctg  | ggaccgggaa | atctaagaat | 120 |
| tggagaaaaga | aattgaagaa | ctcagatcaa | aacctgtac  | tgaaggaact | ggtgatatta | 180 |
| ttaaggcatt  | aactgaacgt | ctggatgctc | ttcttctgga | aaaagcagag | actgagcaac | 240 |
| agtgttttc   | tctgaaaaag | gaaaatataa | aatgaagca  | agagggttag | gattctgtaa | 300 |
| caaagatggg  | agatcacat  | aaggagttgg | aacaatcaca | tataaactat | tgaaaagaaa | 360 |
| ttgaaaaattt | gaaaatgag  | ttgatggcag | tacgttccaa | atacagtgaa | gacaaagcta | 420 |
| acttacaaaaa | ncagctggaa | naagcaatga | atacncaatt | agaactttca | naacaactta | 480 |
| aatttcanaa  | caactctgaa | g          |            |            |            | 501 |

<210> 206

<211> 599

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(599)

<223> n = A,T,C or G

<400> 206

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| tggtcgcacc  | agctctctgc | tctcccagcg | cagcgccgcc | gcccgcccc  | tccagcttcc  | 60  |
| cggaccatgg  | ccaacctgga | gcmcaccttc | atcgccatca | agccggacgg | cgtgcagcgc  | 120 |
| ggcctgggtgg | gcgagatcat | caagcgcttc | gagcagaagg | attccgcct  | cgtggccatg  | 180 |
| aagttcctcc  | gggcctctga | agaacacctg | aagcagcact | acattgacct | gaaagaccga  | 240 |
| ccattcttcc  | ctgggctgg  | gaagtacatg | aactcagggc | cggttgtggc | catggctctgg | 300 |
| gaggggctga  | acgtggtaa  | gacaggccga | gtgatgctt  | gggagaccaa | tccagcagat  | 360 |
| tcaaagccag  | gcaccattcg | tggggacttc | tgcattcagg | ttggcaggaa | catcattcat  | 420 |
| ggcagtgatt  | cagtaaaaag | tgctgaaaaa | gaaatcagcc | tatggtttaa | gcctgaagaa  | 480 |
| ctgggtgact  | acaagtctt  | tgctcatgac | tgggtctatg | aataagaggt | ggacacaaca  | 540 |
| gcagtctcct  | tcacacggcg | ttgtgtgtcc | tggacacagt | nttattctt  | acttaaagc   | 599 |

<210> 207

<211> 395

<212> DNA

<213> Homo sapien

<400> 207

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| ccggccgggc  | cgagggtcg  | cggccggcg  | cggccgggc  | ccgcgcacag | cgcccgcatg  | 60  |
| tacaacatga  | tggagacqga | qctqaagccq | ccggccggc  | aqcaaacttc | qqggggcgqgc | 120 |
| ggcggcaact  | ccaccgcggc | ggcgccggc  | ggcaaccaga | aaaacagccc | ggaccgcgtc  | 180 |
| aagcggccca  | tgaatgcct  | catggtgtgg | tccgcgggc  | agcggcgaa  | gatggccca   | 240 |
| gagaacccca  | agatgcacaa | ctcgagatc  | agcaagcgcc | tgggcggcga | gtggaaactt  | 300 |
| ttgtcgagaga | cggagaagcg | gccgttcatc | gacgaggcta | agcggctgcg | agcgtgcac   | 360 |
| atgaaggagc  | acccggatta | taaataccgg | cccccg     |            |             | 395 |

<210> 208

<211> 398

<212> DNA

<213> Homo sapien

&lt;400&gt; 208

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| aggtctcca   | agccctgctg | tatattttt  | ccaggaggga | ggggcgattc  | tgccttgaaa | 60  |
| gcagtgaatg  | gttcaatat  | gctcatcaat | ggcgatcg   | agagaaaaatc | ctgcttcgtt | 120 |
| aagctcatcc  | gacacttaga | ccgagtggac | tccatcctgc | tcaccacat   | tggggatgac | 180 |
| aatttgcctg  | gaataaacag | catgttacag | cggaaaattt | cagagctcg   | ggaagaacag | 240 |
| tcccagggct  | ccaccacaaa | tagtgactgg | atgaaaaacc | tcatctcccc  | tgacttagga | 300 |
| gttgttatttc | tcaatgtacc | tgaaaatctc | aaaaatccag | agccaaacat  | caagatgaag | 360 |
| agaagcatag  | aagaagcctg | ttcactctc  | cagtacct   |             |            | 398 |

&lt;210&gt; 209

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 209

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| gcccggcctc | ctgggagttg  | tagtcgcgt   | cctgaggtaa  | cggtataagtt | tataccatgg  | 60  |
| atagcacaaa | ggagaagtgt  | gacagttaca  | aatgtatct   | tctgcttaagg | atgggactta  | 120 |
| atgataataa | agcagaatg   | gaaggattag  | ataaaagagaa | aattaacaaa  | attataatgg  | 180 |
| aagccacgaa | gggttccaga  | ttttatggaa  | atgagctcaa  | gaaagaaaaag | caagtcaacc  | 240 |
| aacgaattga | aaatatgtatg | caacaaaaag  | ctcaaatcac  | cagccaaacag | ctaagaaaaag | 300 |
| cacaattaca | ggttgacaga  | tttgcatagg  | aattagaaca  | aagccgaaat  | ttgagcaata  | 360 |
| ccatagtgc  | cattgacatg  | gatgttttct  | atgcagctgt  | agaaaatgagg | gacaatccag  | 420 |
| aattgaagga | taaaccatt   | gctgttaggat | caatgagtat  | gctgtctact  | tcaaattacc  | 480 |
| atgcaaggag | atttgggtt   | c           |             |             |             | 501 |

&lt;210&gt; 210

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(450)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 210

|             |            |              |            |             |            |     |
|-------------|------------|--------------|------------|-------------|------------|-----|
| cggaaacaagt | gcagaacagg | ataatcggtt   | cagcaacaaa | cagaagaaaac | tactgaagca | 60  |
| gctgaaattt  | gcagaatgcc | tagaaaaaaaaa | ggtgacatg  | agcaaaatgaa | atttggaggt | 120 |
| tataaagcc   | tggataacaa | aaagagtaac   | ggaaatcctt | gggtttgaag  | atgatgttgt | 180 |
| gattgagttt  | atattcaacc | agcttggaaat  | gaagaatcca | gactccaaaa  | tgatgcaaat | 240 |
| caacctgact  | ggatttttga | atggaaaaaaa  | tgctcgagaa | tttatggag   | aactgtggcc | 300 |
| cctgctgcta  | agtgcacaag | aaaacatcgc   | ggaaatccct | tctgtttcc   | tagaactgaa | 360 |
| gaaaagaagaa | ataaaacaaa | gacagattga   | acaagaaaaa | ctggcatcta  | tgaaaaagcn | 420 |
| agatgaagac  | caagattaaa | gagaaangga   |            |             |            | 450 |

&lt;210&gt; 211

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 211

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| ctcagagcag | ctggAACAGG | ccaagcggtt | caaagcaaatt | ctagagaaga | acaagcaggg  | 60  |
| cctggagaca | gataacaagg | agctggcggt | tgaggtgaag  | gtcctgcagc | aggtaaggc   | 120 |
| tgagtctgag | cacaagagga | agaagctcg  | cgcgcaggc   | caggagctcc | atgccaagggt | 180 |

|            |             |            |             |             |            |     |
|------------|-------------|------------|-------------|-------------|------------|-----|
| ctctgaaggc | gacaggctca  | gggtggagct | ggcggagaaa  | gcaagtaagc  | tgcagaatga | 240 |
| gctagataat | gtctcaccc   | ttcttggaaa | agcagagaag  | aagggttatta | aatttgctaa | 300 |
| ggatgcagct | agtcttgagt  | ctcaactaca | ggatacacag  | gagcttcttc  | aggaggagac | 360 |
| acgccagaaa | ctaaacctga  | gcagtcggat | ccggcagctg  | gaagaggaga  | agaacagtct | 420 |
| tcaggagcac | caggaggagg  | aggaggagac | caggaagaac  | ctggagaagc  | aagtgctggc | 480 |
| cctgcagtcc | cagttggctg  | ataccaagaa | gaaagttagat | gacgacctgg  | gaacaattga | 540 |
| aagtcttgg  | agaaggccaag | aagaacttct | gaaggacgcg  | gaggccctga  | gccaacgcct | 600 |
| g          |             |            |             |             |            | 601 |

&lt;210&gt; 212

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(498)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 212

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| atgacaaaata | ttccacatct | gtgattctct | ccagtcaaaa | gttcttttag | acgatgccat | 60  |
| cggccttggc  | caatcgaga  | atggaatcat | ctgactcacc | catcctacga | atggccccgc | 120 |
| agatagcata  | agttttaaac | tggccattaa | acctgcctgt | gaccttgtca | acctcgccca | 180 |
| cgttcatctg  | gatggatgcg | tggccttgg  | caccgatgat | gcgattgtca | gcggagcatt | 240 |
| tccgcggcac  | gtacaggc   | acgaactcgc | cggcgtcg   | ctgcatttcg | aggctggct  | 300 |
| gcccctgctg  | ccactcgtgc | cgaattctt  | ggatccacta | gtgtcgacct | gcaggcgcgc | 360 |
| gagctccagc  | ttttgtccct | ttagtgagg  | ttaattcga  | gcttggcgta | atcaanggca | 420 |
| tagctggttc  | ctgnngaaa  | ttggtatccg | tcacaattcc | ncncaatata | cgagccggaa | 480 |
| gtataaaagg  | naaaggct   |            |            |            |            | 498 |

&lt;210&gt; 213

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 213

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| actaccagac | aaccttagcc  | aaaccattta | cccaaataaa | gtataggcga | tagaaattga | 60  |
| aacctggcgc | aatagatata  | gtaccgcaag | ggaaagatga | aaaattataa | ccaagcataa | 120 |
| tatagcaagg | actaaccctt  | ataccttctg | cataatgaat | taactagaaa | taactttgca | 180 |
| aggagagcca | aagctaagac  | ccccgaaacc | agacgagcta | cctaagaaca | gctaaaagag | 240 |
| cacacccgtc | tatgttagcaa | aatagtggga | agatttata  | gtagaggcga | caaacctacc | 300 |
| gagcctggtg | atagctggtt  | gtccaagata | gaatcttagt | tcaactttaa | atttgcccac | 360 |
| agaaccctct | aaatcccctt  | gtaaatttaa | ctgttagtcc | aaagaggaac | agctcttgg  | 420 |
| acacttagaa | aaaaccttgt  | agagagagta | aaaaattaa  | cacccatagt | aggcctaaaa | 480 |
| gcagccacca | attaagaaag  | cgttcaagct | caacacccac | tacctaaaaa | atcccaaaca | 540 |
| tatactgaac | tcctcaaccc  | aattggccaa | tctatccct  | atagaagact | aatggtagta | 600 |
| t          |             |            |            |            |            | 601 |

&lt;210&gt; 214

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

```

<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

<400> 214
aggctgcatt tacggggtct cccggaggc cagagtcgt gcttacagaa gagacgaaat
gtggtctgag ggacgatatg aatatgaaaag aattccgaga gaacgagcac ctccctcgaaag
tcatcccagt gatgaatctg gttatagatg gacaagagac gatcattctg caagcaggca
acctaataac agggacatga gagatggctt tagaagaaaa agtttctact cttcccatta
tgcgagagag cggtctccctt ataaaaggga caataacttt ttccagagaat cacctgttgg
ccgaaaggat tctccacaca gcanatctgg ttccagtgatc agtagcanaa gctctctcca
gaaaggagca aatcataactc tttccatcg tctcaacata gaaataaaaga gaggcctgtc
agtcttgaa aacatcaaga gatacttccc ctcaagtggt tcacagttct tctcaaagggg
gtagacaaac ccagtaggtta

<210> 215
<211> 501
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 215
gcctgtggga gccctggcc tttaaagtgc cgttcagccct tttccctccag gggtgccttg
taaacacggc tggctcagg gctcgccggt gaccgaaagg atcatgaact agtgcacccgg
aaagggtact agatggaaac ttgagaaagg actgcttatt gataacagct aaggtattcc
tggaaagcaga gtaaataaaag ctcatggccc accagctaga aagtattctt gccatgagaa
aaagaatgtg ataagttatt caacttatga aattcaagtt acatgtaat tctgccaggc
aatacaagga cctgtggaat atgagtgtatc aaaaaccctt tctatgtact gcgcctggat
gtggccacgc ttttaccaac gaggatcatt tggctgtccaa taaacataaaa catgagatga
cactgaaatt tggtccanca cgtaatgaca gtgtcattgt ggctgatcag accccaaacac
caacaagatt ctggaaaaac t

<210> 216
<211> 501
<212> DNA
<213> Homo sapien

<400> 216
aggccgcctt gggggcatct gcattggagt tgggggtgcc gatgtgtgg atgtcatggc
tgggatcccc tgggagttga agtgccccaa ggtgattggc gtgaagctga cgggctctct
ctccgggttgg tcctcaccca aagatgtatc cctgaaggtg gcaggcatcc tcacgggtgaa
aggcgcaca ggtcaatcg tggaaatcca cgggcctggt gtagactcca tctctgtcac
tggcatggcg acaatctgca acatgggtgc agaaattggg gccaccactt ccgtgttccc
ttacaaccac aggtgaaga agtacctgag caagaccggc cgggaagaca ttgccaatct
agctgatgaa ttcaaggatc acttgggtgcc tgaccctggc tgccattatg accaactaat
tggaaattaaac ctcaagtggc tgaagccaca catcaatggg cccttcaccc ctgacactgt
caccctgtgg cagaagtggg c

<210> 217
<211> 408

```

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(408)  
 <223> n = A,T,C or G

<400> 217

|                       |            |            |            |            |     |
|-----------------------|------------|------------|------------|------------|-----|
| gtcacacctg gacgtgacgt | ggggctggga | gcactgggc  | gggatcctgc | cacagtcgt  | 60  |
| ggacctgttg            | ctctgcatca | acatggccca | tgtcagcccc | ctgcgctgca | 120 |
| cagaatgggg            | qtttccggac | acagccctcc | tggaggacct | gggaaaggcc | 180 |
| tcctggagag            | atgggtggac | atgccagcca | acaacaaatg | cctgatcttc | 240 |
| aagccccc              | ttcacccccc | cacacctgca | tccctgccc  | angctctgtg | 300 |
| cctgcctccc            | taggcggac  | tttgcgttgc | ccagtctgtg | aggcacgaac | 360 |
| ntggccgaag            | ggccancct  | gctcagaata | aacatgtcct | ctctcagccg | 408 |

<210> 218

<211> 402  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(402)  
 <223> n = A,T,C or G

<400> 218

|                       |             |             |             |             |     |
|-----------------------|-------------|-------------|-------------|-------------|-----|
| tgcttgtctc aaagattaag | ccatgcatgt  | ctaagtacgc  | acggccggta  | tcctgctccg  | 60  |
| cctgcccggcg           | gnngccatgg  | ntaccggca   | ggnngttgttc | cagcggttct  | 120 |
| gtccttcgtg            | aagcactcca  | tggagcatgt  | gtcaatggcc  | tgtgtccacc  | 180 |
| gatagaagag            | gccccaaagac | gcatacggga  | cgtcatcaat  | gtgtttcacc  | 240 |
| agctgagaga            | caaaaagaag  | ccctgtccctc | tactactgga  | tcaagatttat | 300 |
| agaacccaaat           | tataaaggcg  | ggnaagacna  | ttcttcaaaa  | atgtgggntt  | 360 |
| gtgaagcatn            | ctcataagan  | aatcgntatg  | taccttcagg  | ctgcgnccat  | 402 |

<210> 219

<211> 486  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(486)  
 <223> n = A,T,C or G

<400> 219

|                       |             |            |            |             |     |
|-----------------------|-------------|------------|------------|-------------|-----|
| aatgctgcgg agattgaggt | gtcggttcgt  | gctgctgagc | tgcccaggct | tcacggagcg  | 60  |
| gtgttggaaa tcaatagctc | ttcttagcctt | tgcattgttt | aaatataata | gtgtcattgg  | 120 |
| actaagatgt            | tcctgatgcc  | aacctttca  | gagttaaaca | gtgggcagaa  | 180 |
| cagtggatga            | ccaatccttc  | tcgggctgg  | gtcatattaa | tttcgtggatt | 240 |
| gaagcagaca            | aagagaagcg  | agcagcttgc | ggacatttct | accagcttt   | 300 |
| ggcacacatt            | tttctgtatag | tttcagcttt | tataaatgaa | nctattaaaa  | 360 |
| aacagaagtt            | ggagtcaaacc | aacacttaca | aaccacagtc | agataaatct  | 420 |

|   |     |
|---|-----|
| cagcctttcc ttgcattaaa aagggaccnc aggtngcggn atggtccagt gtcctggac    | 480 |
| ncccgg  | 486 |
| <br>  |     |
| <210> 220   |     |
| <211> 380   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 220   |     |
| ggcggattag cttcgcggg caaaaatgga gctcgaggcc atgagcagat ataccagccc    | 60  |
| agtgaaccca gctgtttcc cccatctgac cgtgtgcctt ttggccattg gcatgttctt    | 120 |
| caccgcctgg ttcttcgttt acgaggtcac ctctaccaag tacactcggt atatctataa   | 180 |
| agagctcetc atctccttag tggcctcaact cttcatggc tttggagtcct tcttctgt    | 240 |
| gctctgggtt ggcatctacg tgtgagcacca aagggttaac aaccagatgg cttaactgaa  | 300 |
| acctgctttt gtaaaattact tttttttact gttgctggaa gtgtccacc tgctgctcat   | 360 |
| aataaatgca gatgtatagc   | 380 |
| <br>  |     |
| <210> 221   |     |
| <211> 406   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <220>   |     |
| <221> misc_feature  |     |
| <222> (1)...(406)   |     |
| <223> n = A,T,C or G  |     |
| <br>  |     |
| <400> 221   |     |
| gcggattagc cttcgcgggg caaaaatggag ctcgaggcca tgagcagata taccagccca  | 60  |
| gtgaacccag ctgtttttcc ccatctgacc gtgggtcttt tggccattgg catgttcttc   | 120 |
| accgcctggt ttctcgttta cgangtcacc tctaccaagt acactcggt tatctataaa    | 180 |
| gagctccta ttccttagt ggcctcaactc ttcatggct ttggagtccct ttcctgt       | 240 |
| ctctgggtt gcatctacgt tgtgagcacca aagggttaaca accagatggc ttcactgaaa  | 300 |
| cctgctttt gtaaaattactt tttttttactg tttgctggaa gtttccacct gctgctcata | 360 |
| ataaaatgca gatgtatagcc ctatagngag cgtattacaa ttcaact                | 406 |
| <br>  |     |
| <210> 222   |     |
| <211> 501   |     |
| <212> DNA   |     |
| <213> Homo sapien   |     |
| <br>  |     |
| <400> 222   |     |
| aatggcggta gttgggtgtt ctcgggtttc tcgggtgtg ggtcggtccc gcccacagct    | 60  |
| ggggcggctt atgtcgagtgcgc cggccatgg cgaagaggc tcagtcgca tgtgaaagac   | 120 |
| tctcaccttc ttctgtcgcc tccccgggtt ggcagtcaactc atgctgaatg tgtacctgaa | 180 |
| gtcgcaccac ggagagcacg agagacccca gttcatcgcc taccggccatc tccgcacatcg | 240 |
| gaccaagccg tttccctggg gagatggtaa ccatactcta ttccataacc ctcatgtgaa   | 300 |
| tccacttcca actggctacg aagatgaata aagagaatct ggaccactac ccggccacca   | 360 |
| gggaccacag cactgggttg gaccgttaact ctgcacatgg accagaaaaaa gtatatggaa | 420 |
| ccttaagctc accttcttta ttgttatcaa atgatgactg gtatactggt ctcccatccc   | 480 |
| tttgcttgtt gcaggagatg g   | 501 |
| <br>  |     |
| <210> 223   |     |
| <211> 455   |     |

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(455)  
 <223> n = A,T,C or G

<400> 223  
 aatcttatgc aaaaggaca caggggttca aaaataaaaa tttctttcc ccctccccaa 60  
 acctgtaccc cagcccccg accacaaccc ctttcctccc ccggggaaag caagaaggag 120  
 cagggtggc atctcagct gggaaanag aggcgggga ggtccgagc tcgggtctgg 180  
 tctttcca aatataata ctgtgtcan aactggaaa tcctccagca cccaccaccc 240  
 aagactctc cgccccgtc cgggttttg agagggcg 300  
 cggctggctg cggtotactg catccgctgg gtgtcaccc cgcgagcctc ctgtgtctca 360  
 ttgtagaaga gatgacactc ggggtcccccc ccggatggng ggggctccct ggatcagctt 420  
 tccggngnt ggggttcaca caccagact tccca 455

<210> 224  
 <211> 507  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(507)  
 <223> n = A,T,C or G

<400> 224  
 ttacccacac ccattgttagc cttgggtgn gggatgtgcc ctgtccctgc agggccaaaa 60  
 gggatgttccatgt ttccctcaaa totcaaagca gtcctggccc aggctgcagg caggaggaa 120  
 gtcgtgacct ctggcaggc tcagtcctgc agctgccccca agcagccana ctgtccctgg 180  
 ggctcgccca ggccgggca ctggctggg ggggaggtgt ctggcaggc ttggcatgga 240  
 ggaaaaanagc tgctgcaggg ctntcgaaa gagggttgg ccaagttaggc attcaccagc 300  
 tgcatgatct ctccacactg ggggtctgc aggaggagct ggntctctcc caccctcaag 360  
 gccagggtgn gggggcccat tagctggcaag gcggccacat gcctatagct gacactgngg 420  
 atgggctccg tctccctgg ccgganagg gacatggct tggctccaa gcccaggcac 480  
 agtttntggg ggagcacccca gaccagg 507

<210> 225  
 <211> 572  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(572)  
 <223> n = A,T,C or G

<400> 225  
 aaacctccct taaagattct ttgatgctt gtcatacac tgtanacctg gtctttcc 60  
 ccccaatttt ttctttta cattctgggt tgctattttc anattaataa tttgatgacc 120  
 ccatcacagt accaaaatac ccccaaaaat gaagttcaaa tttgatcaaa acataaatca 180  
 gagngagnga gtaaaattat aaaggccagg cagcagggaa agtcaccctc aactaccatn 240

|                      |            |             |            |             |             |     |
|----------------------|------------|-------------|------------|-------------|-------------|-----|
| tgactggta            | ggtctcaccc | atgccaagggg | gggcaggaag | agganaaaatc | tattatacat  | 300 |
| gcaacactga           | actgggaac  | atggcttggg  | gcctccagga | cagttcaggt  | ccccaaagcta | 360 |
| accccctact           | tcccanacag | ctgctcgta   | agtttggca  | catagtcatc  | ccactcgccc  | 420 |
| tggtaacacg           | tgccagccac | cggggccctg  | agctcatact | ttttacggaa  | ggacgccacc  | 480 |
| ttgaatttgc           | cacggggnc  | tccanancgg  | ttgctgaaga | tggctcntc   | acacttttagc | 540 |
| gggctgtcct           | gtcgtaaac  | canccaaaca  | ta         |             |             | 572 |
| <210> 226            |            |             |            |             |             |     |
| <211> 401            |            |             |            |             |             |     |
| <212> DNA            |            |             |            |             |             |     |
| <213> Homo sapien    |            |             |            |             |             |     |
| <400> 226            |            |             |            |             |             |     |
| gaagcgtctc           | cgttgggtcc | ggccgctctg  | cgggactctg | aggaaaaagct | cgcaccaggt  | 60  |
| ggacgcggat           | ctgtcaacat | ggtaaaggaa  | gaccccaaca | agccgcgggg  | aaaaatgtcc  | 120 |
| tcgtacgcct           | tcttcgtgca | gacctgccc   | gaagagcaca | agaagaaaaca | cccgactct   | 180 |
| tccgtcaatt           | tcgcgaatt  | ctccaagaag  | tgttcggaga | gatggaaagac | catgtctgca  | 240 |
| aaggagaagt           | cgaagttga  | agatatggca  | aaaagtgaca | aagctcgcta  | tgacagggag  | 300 |
| atgaaaaatt           | acgttcctcc | caaaggtgat  | aagaagggg  | agaaaaagga  | ccccaatgct  | 360 |
| cctaaaaggc           | caccatctgc | cttcttctgt  | tttgcctga  | a           |             | 401 |
| <210> 227            |            |             |            |             |             |     |
| <211> 501            |            |             |            |             |             |     |
| <212> DNA            |            |             |            |             |             |     |
| <213> Homo sapien    |            |             |            |             |             |     |
| <220>                |            |             |            |             |             |     |
| <221> misc_feature   |            |             |            |             |             |     |
| <222> (1)...(501)    |            |             |            |             |             |     |
| <223> n = A,T,C or G |            |             |            |             |             |     |
| <400> 227            |            |             |            |             |             |     |
| agcgcttcta           | gaaatgctga | gccgattatc  | aggattagca | aatgttgttt  | tgcataat    | 60  |
| atcaggagat           | gatgacactg | atcagaatat  | gagggtccc  | ctagaccctg  | aattacacca  | 120 |
| agaatctgac           | atgaaattta | ataataactac | acaagaagat | gttcaggagc  | gcctggctta  | 180 |
| tgcaagagcaa          | ttgggtgtgg | agctaaaaga  | tattattaga | cagaaggatg  | ttcaactgca  | 240 |
| gcagaaagat           | gaagctctac | aggaagagag  | aaaaagctgt | gataaaaaat  | taaaaaacta  | 300 |
| aacctctcg            | aaggccaatt | acttctttga  | taatantaga | gaaatgaagc  | acaggaggac  | 360 |
| tgttgcctca           | acctcagcag | agacacttcc  | agctcagag  | tctcagagag  | agtggaaatga | 420 |
| aagataacat           | antcagagag | gagactatca  | ncttgagcca | ntctcagcca  | gagacacctg  | 480 |
| acagaatggg           | tgtgaaggag | c           |            |             |             | 501 |
| <210> 228            |            |             |            |             |             |     |
| <211> 501            |            |             |            |             |             |     |
| <212> DNA            |            |             |            |             |             |     |
| <213> Homo sapien    |            |             |            |             |             |     |
| <220>                |            |             |            |             |             |     |
| <221> misc_feature   |            |             |            |             |             |     |
| <222> (1)...(501)    |            |             |            |             |             |     |
| <223> n = A,T,C or G |            |             |            |             |             |     |
| <400> 228            |            |             |            |             |             |     |
| gcaggttccc           | ttttatgggc | caggtggtaa  | ctggAACACA | gaacagtgaa  | ggacagaacc  | 60  |

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ttggaccaca  | ggccattcct | caggatggca | gtataacaca | ttagatttct | aggcctaatc | 120 |
| ctccaaattt  | tggtcaggc  | tttgtcaatg | attcacagcg | taagcagtat | gaagagtggc | 180 |
| tccaggagac  | ccaacagctg | cttcaaatgc | agcagaagta | tcttgaagaa | caaattggtg | 240 |
| ctcacagaaa  | atctaagaag | gcccttcag  | ctaaacaacg | tactgccaag | aaagctggc  | 300 |
| gtgaatttcc  | agaggaagat | gcagaacaac | tcaagcatgt | tactgaacag | caaagcatgg | 360 |
| ttcagaaaca  | gctagaacag | attcgtaaac | aacagaaaga | acatgctgaa | ttgattgaag | 420 |
| attatcgat   | caaacagcag | cancaatng  | aatggcccc  | acctaccatg | atgcccagng | 480 |
| tccagccccca | nccccctaa  | t          |            |            |            | 501 |

<210> 229  
<211> 4099  
<212> DNA  
<213> Homo sapiens

<400> 229

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cagctgccag  | ccgaggaggc  | gcggcggaga  | ggggactgcg  | gtcagctgcg  | tccacttggg  | 60   |
| gctgtcgccg  | ggtcccgccg  | ccggcgatgt  | tcccgccac   | tccctgagta  | gcggcagctt  | 120  |
| atcccccgcc  | cgttagcccc  | ccctggtccc  | cggtcgctc   | gctggctggc  | gcggccccgg  | 180  |
| ccccgtctcg  | cgtcgcccc   | gccgcgtgg   | aggcgcgca   | ggggacgcg   | gccggggatg  | 240  |
| acgggattgc  | gggtgaactc  | gccgcgggg   | ggcccccgcg  | agccgtgagc  | cgctgtttt   | 300  |
| ctccgagtcg  | ccgcctgccc  | tttggatttg  | agatcatgtc  | catccacatc  | gtggcgctgg  | 360  |
| ggaacgaggg  | ggacacattc  | caccaggaca  | accggccgtc  | ggggcttatac | cgcaettacc  | 420  |
| tggggagaag  | ccctctggc   | tccggggacg  | agagcagctt  | tttgctgaac  | gcggccagca  | 480  |
| cgtcgccg    | tccgggttcc  | accgagatc   | aggccagtgc  | ttttggaaat  | gtcaagctgg  | 540  |
| tgtccacga   | ctgtcccgtc  | tggacatata  | ttgacagtga  | ttggtacact  | tctcgaatc   | 600  |
| taattggggg  | cgtgtacatc  | attgtgatca  | aatacaacgt  | taatgacaag  | ttttcattcc  | 660  |
| atgaagtaaa  | ggataattat  | attccagtga  | taaaaaagago | attaaattca  | tttccagtaa  | 720  |
| ttattgtgc   | tgttgttacc  | agacaaaatg  | aagagttacc  | ttgtacatgc  | ccactatgt   | 780  |
| cctcagacag  | agggagctgt  | tttagtacaa  | ctgaaggat   | ccaacttgca  | aaagaactag  | 840  |
| gagcaaccta  | tcttgaactc  | cacagccttgc | atgacttcta  | catagggaaag | tattttggag  | 900  |
| gagtgttgg   | gtattttatg  | attcaagcct  | taaatcagaa  | gacaagtgaa  | aaaatgaaga  | 960  |
| aaagaaaaat  | gagcaactcc  | tttcatggaa  | ttagaccacc  | tcaacttgaa  | caaccagaaa  | 1020 |
| aaatgcctgt  | cttaaaggct  | gaagcgtcac  | attataactc  | tgacttaaat  | aacttgcgt   | 1080 |
| tctgctgcca  | gtgtgtggac  | gtggattttt  | ataaccccgaa | tttaaagaaa  | ttttagagg   | 1140 |
| cccacaaagat | cgttctctgc  | gctgttaagcc | atgtttcat   | gtcttttc    | aatgtgaaga  | 1200 |
| gtccccactga | cattcaggat  | tccagtatca  | tccgaactac  | ccaggatett  | tttgcataaa  | 1260 |
| acagagatac  | tgcatttcca  | gtgtctagcc  | atgaatcttc  | aggcaaccca  | ccattacgag  | 1320 |
| tcattgttaa  | agacccctc   | ttctgttctt  | gtttatcaga  | catccttcgc  | ttcatttatt  | 1380 |
| caggtgtctt  | tcagttggaa  | gaatttggaa  | aagatatacg  | gaagaagttg  | aaagattctg  | 1440 |
| gggatgtttc  | aatgttaatc  | gagaaagtt   | aatgcatttt  | aaaaacacca  | ggaaagatta  | 1500 |
| attgcctaag  | gaatttgcaaa | acctatcaag  | ccagaaaacc  | tttgggttt   | tataacactt  | 1560 |
| ccctcaagtt  | tttccttaat  | aagccgatgc  | ttgcccgtgt  | tgtcttcgaa  | attcaaggt   | 1620 |
| cgacagtgc   | agcccacagg  | gccatctgg   | tggccgttg   | tgaagtgtat  | gcagccatgt  | 1680 |
| ttaatggtaa  | ttacatggaa  | gcaaaagatgt | tcctgattcc  | cgtttatgtt  | ttttccaaag  | 1740 |
| agactttctt  | gtcattttta  | gaatacctgt  | acacagactc  | ctgtgtccca  | gctggcatat  | 1800 |
| tccaggccat  | gtgtctccgt  | atctgtgcgg  | agatgtacca  | agtgtccaga  | ctgcagcaca  | 1860 |
| tctgtgagct  | tttcatcatt  | acccagctgc  | agagcatgcc  | aagcaggaa   | ctggcatcca  | 1920 |
| tgaaccttga  | tatagttgac  | ctgtttaaa   | aggccaaagtt | tcaccactt   | gattgcctt   | 1980 |
| caacctggct  | acttcatttc  | attgtctacta | actacctcat  | cttcgttcaa  | aagcctgaat  | 2040 |
| ttcaggatct  | ttcagttggaa | gaacgcagtt  | ttgttggaaa  | gcacagatgg  | ccgtcgaata  | 2100 |
| tgtacttgaa  | gcagcttgcg  | gaatacagga  | agtatattca  | ctcccgaaa   | tgtcggtct   | 2160 |
| tagtaatgt   | acctggagct  | tttatacact  | acatttctt   | tttatttata  | tgaagaatgg  | 2220 |
| gatacctcca  | ggttccagta  | aaatttctt   | gaccgaaacc  | aatgtgggtg  | tttagaaaaat | 2280 |

taccatatacg cttaatatgt ttattagttc tctttggaaa aaaactacca ctgtggtctt 2340  
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 ctc当地 atta tgc当地 ttttgc当地 atatcctatg ttttcttgc当地 ctttgc当地 3000  
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 gaagagaaca tagtgaagat tcccgccctt ggggaggctt ggaccaccca gggccctccac 3120  
 tgccaccctt gctggcaagg gagaatgtt ttgtgttgc当地 tttagctttaa aacagtacaca 3180  
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 tgtaagagt gactaaccag cctaaacttta atacacatgt ataaagatgt tcacagagaa 3300  
 agatgctctg tagagaattt gctaccgaag ttggctcaag aatttgc当地 tagtgc当地 3360  
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 tatttgc当地 agatgttgc当地 ctctaatattt acacagtaa ttcaaaagaaa 3480  
 ggtgttaagt caaagacttgc当地 ttacatagat ggaaaatggc ctggataga ggacagactg 3540  
 atagtttctt tctttcatat cacatgtata gagaataat tatatcagaa actcacaaac 3600  
 cttagacatgg aaaaacagat tactgtctat tgc当地 ctttgc当地 attttgc当地 3660  
 actggaaat atttttctt taatttccag tgacttttgc当地 atacacacag ttttccgac 3720  
 ttttcaaaaaa tttgatttttgc当地 ttggcttata gtataatattt gggaccccatt accgttagcc 3780  
 ctgttatgtt taccaacactt gccaaagtaa aacatttagt caggcatgtt ggctcaggcc 3840  
 tgtaatccca gcattttggg aggctggaggc aagtggataa cttggaggtaa tgaggctgaa 3900  
 accagcctgg cccaaacagt gaaacccctt ctctactaaa aataaaaaat tagccagatg 3960  
 tggctggc当地 cacctgtaat cccagctact caggaagctg aggccaggaaa atcgcttgc当地 4020  
 cctgggagggtt ggaagggttgc当地 gtgagccgag atcgccaccac tgcactccag cctgggtgac 4080  
 aagagcggaaa ctccatctc 4099

<210> 230  
 <211> 2649  
 <212> DNA  
 <213> Homo sapiens

<400> 230  
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 agattttctc tatgtatata aagatggcca cgtagcaaa cggacaggct gacaacgca 120  
 gc当地 ctttgc当地 cacgggctc ggc当地 gagcc cgggcaatgc当地 aacggattaa 180  
 gccc当地 gagccccc当地 ggggaacccg tgc当地 accatttccatc ccatgaaagga cc当地 acatgttgc当地 atcaagctgt 240  
 tc当地 atttgc当地 gatccccccgc当地 aacctggatg agaaggacccctt caagcccttccatc ttggaggatg 300  
 ttggcaaaaat ctacgagctt acggcttgc当地 aggacaggctt cacaggcatg cacaaggctt 360  
 ggc当地 ctttgc当地 cacctactgc gagcgtgatg cagcgtgaa ggccc当地 gagccgacggc ggc当地 ctggccact 420  
 agcagaagac tctgccc当地 ggatgaaaccggc cgatccaggatg gaagcctgatg gacagcgaga 480  
 gccgaggaga tagaaaaactc ttgtgggca tgctcaacaa gcaacagttccatc gaggacgacg 540  
 tgc当地 cccctt tttggaggcc ttgggaaaca tgc当地 gggaggatg caccatccatc cgc当地 gggccctt 600  
 acggcaacag caaggggctc gc当地 ttttgc当地 agtacttctc cc当地 acggccgag ggc当地 caggccctt 660  
 ccatcaacgc gctacacggc agccagacca tgc当地 gggaggcc ctc当地 gtgggtca 720  
 agttc当地 cccctt caccgacaaag gagcgcacgc tgc当地 gggaggatg gtc当地 gggccaga 780  
 tggc当地 catgtt caacccttgc当地 gccatccctt tgc当地 gggaggcc ctc当地 gtgggtca 840  
 tgc当地 atgtgc当地 gcaaggccggc ctgatggcat cagtc当地 gggaggccatc ctgaaaccctt 900  
 tggctgc当地 ctttgc当地 caccatc cgc当地 gggccctt ctc当地 acatgc当地 aatggccctgg 960

cggccgcacc tatgacccca acctcaggtg gcagcacccc tccgggcata actgcaccag 1020  
 ccgtgcctag catcccatcc cccattgggg tgaatggctt caccggcctc ccccccacagg 1080  
 ccaatggcca acctgctgca gaagctgtgt tcgcaaatgg catccacccc tacccagcac 1140  
 agagccccac cgccgcggac cccctgcagc aggctacgc cggagtgcag cagtatgcag 1200  
 gtcctgccta ccctgctgcc tatggtcaga taagccaggc ctttccttag cgcctccaa 1260  
 tggatcccccgc gcagcagaga gaagggcccg agggctgtaa cctgttcatc taccatctgc 1320  
 cccaggagtt tggggacgct gagctgatgc agatgttccct cccttcggt aatgtcatct 1380  
 cctcgaaagt gtttgtggat cggggcacta accaaagtaa atgctttggc ttctgtgagct 1440  
 tcgacaaccc ggccagcgcg cagaccgcca tccaggccat gaacggctc cagatcggca 1500  
 tgaagaggct caaggtgcag ctgaagcggc ccaaagacgc caatgcggc tactgagcgc 1560  
 cggcggggagc gtccccccggg ggagaccagg actcgcacag ggcaggatgc tgaacgggct 1620  
 acattaaaaaa acaaacctct ctctatatat atttataaat gagaactgtt ggtatgacacc 1680  
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 aatatatatgt acatgaagaa gaagatgaag aaaaatgaga aaaaacacaca caaaaggcaa 1860  
 cttaaaaaca aaatatcacg aycagacggg gaggctgaag ggctgggagc tggaggaga 1920  
 cgctgcttac cgatccccggg gctttccag cccacgggccc cctgacgcag gctggggcaa 1980  
 gtgggtcggtg gggcctggc cccaaggggc ggctgagagg ccgcactga gcatctctat 2040  
 ctgtcattoc tttagctatt tagggaccaa aggaccaa ac 2100  
 ctctatgtca aatagagggg gaatggagga cccctccctt cctgcctcat ggctgttctt 2160  
 gaaaacagctt agagcgattc tatggaaaaaa tgtaataaaaaa aattaaaaaa aaaacaaaaaa 2220  
 aaaaaaaaaaa caacaaaaaa aggaaaaata acgcttcaat gcttttaaaa cagcaagata 2280  
 atagttcttt gatacttga gaggcgttt gatgaccctc atccaagtct atgacacttt 2340  
 cctatggttt tctgtattct atgtctggat ggagctgtta aaagatgaac aaattgggtgg 2400  
 atatttgggg aaagcaacac aaatcttaaa actcaccctgt gaagtgtagg aaaacaagga 2460  
 ggggaacaaa tgggacttac caagcaaggt cattgttgc aaaagtctgt aaatgctct 2520  
 aactcttccc cctcttaaaa tcataataagt tgtacagaat tttaaaaagg aaaagtttaa 2580  
 aatacctata taatagaaga aaaatttagag gaaagcaaaa aataaaaaaa aaaaaaaaaaa 2640  
 aaactcgag 2649

<210> 231  
 <211> 3927  
 <212> DNA  
 <213> Homo sapiens

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 cgaggggttt cccgcctcgcc accccccaccc ctggacttgc ctttccttct cttctccgc 180  
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| Tyr | Phe | Met | Ile | Gln | Ala | Leu | Asn | Gln | Lys | Thr | Ser | Glu | Lys | Met | Lys |     |
| 195 |     |     |     |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |
| Lys | Arg | Lys | Met | Ser | Asn | Ser | Phe | His | Gly | Ile | Arg | Pro | Pro | Gln | Leu |     |
| 210 |     |     |     |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |
| Glu | Gln | Pro | Glu | Lys | Met | Pro | Val | Leu | Lys | Ala | Glu | Ala | Ser | His | Tyr |     |
| 225 |     |     |     |     |     |     |     |     | 230 |     |     |     |     | 235 |     | 240 |
| Asn | Ser | Asp | Leu | Asn | Asn | Leu | Leu | Phe | Cys | Cys | Gln | Cys | Val | Asp | Val |     |
| 245 |     |     |     |     |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Val | Phe | Tyr | Asn | Pro | Asp | Leu | Lys | Val | Val | Glu | Ala | His | Lys | Ile |     |     |
| 260 |     |     |     |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Leu | Cys | Ala | Val | Ser | His | Val | Phe | Met | Leu | Leu | Phe | Asn | Val | Lys |     |
| 275 |     |     |     |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |
| Ser | Pro | Thr | Asp | Ile | Gln | Asp | Ser | Ser | Ile | Ile | Arg | Thr | Thr | Gln | Asp |     |
| 290 |     |     |     |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |
| Leu | Phe | Ala | Ile | Asn | Arg | Asp | Thr | Ala | Phe | Pro | Gly | Ala | Ser | His | Glu |     |
| 305 |     |     |     |     |     |     |     |     | 310 |     |     |     |     | 315 |     | 320 |
| Ser | Ser | Gly | Asn | Pro | Pro | Leu | Arg | Val | Ile | Val | Lys | Asp | Ala | Leu | Phe |     |
| 325 |     |     |     |     |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Cys | Ser | Cys | Leu | Ser | Asp | Ile | Leu | Arg | Phe | Ile | Tyr | Ser | Gly | Ala | Phe |     |
| 340 |     |     |     |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Gln | Trp | Glu | Glu | Leu | Glu | Glu | Asp | Ile | Arg | Lys | Lys | Leu | Lys | Asp | Ser |     |
| 355 |     |     |     |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |
| Gly | Asp | Val | Ser | Asn | Val | Ile | Glu | Lys | Val | Lys | Cys | Ile | Leu | Lys | Thr |     |
| 370 |     |     |     |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |
| Pro | Gly | Lys | Ile | Asn | Cys | Leu | Arg | Asn | Cys | Lys | Thr | Tyr | Gln | Ala | Arg |     |
| 385 |     |     |     |     |     |     |     |     | 390 |     |     |     |     | 395 |     | 400 |

<210> 234  
<211> 494  
<212> PRT  
<213> *Homo sapiens*

Val Gly Met Leu Asn Lys Gln Gln Ser Glu Asp Asp Val Arg Arg Leu  
 145 150 155 160  
 Phe Glu Ala Phe Gly Asn Ile Glu Glu Cys Thr Ile Leu Arg Gly Pro  
 165 170 175  
 Asp Gly Asn Ser Lys Gly Cys Ala Phe Val Lys Tyr Ser Ser His Ala  
 180 185 190  
 Glu Ala Gln Ala Ala Ile Asn Ala Leu His Gly Ser Gln Thr Met Pro  
 195 200 205  
 Gly Ala Ser Ser Ser Leu Val Val Lys Phe Ala Asp Thr Asp Lys Glu  
 210 215 220  
 Arg Thr Met Arg Arg Met Gln Gln Met Ala Gly Gln Met Gly Met Phe  
 225 230 235 240  
 Asn Pro Met Ala Ile Pro Phe Gly Ala Tyr Gly Ala Tyr Ala Gln Ala  
 245 250 255  
 Leu Met Gln Gln Gln Ala Ala Leu Met Ala Ser Val Ala Gln Gly Gly  
 260 265 270  
 Tyr Leu Asn Pro Met Ala Ala Phe Ala Ala Ala Gln Met Gln Gln Met  
 275 280 285  
 Ala Ala Leu Asn Met Asn Gly Leu Ala Ala Ala Pro Met Thr Pro Thr  
 290 295 300  
 Ser Gly Gly Ser Thr Pro Pro Gly Ile Thr Ala Pro Ala Val Pro Ser  
 305 310 315 320  
 Ile Pro Ser Pro Ile Gly Val Asn Gly Phe Thr Gly Leu Pro Pro Gln  
 325 330 335  
 Ala Asn Gly Gln Pro Ala Ala Glu Ala Val Phe Ala Asn Gly Ile His  
 340 345 350  
 Pro Tyr Pro Ala Gln Ser Pro Thr Ala Ala Asp Pro Leu Gln Gln Ala  
 355 360 365  
 Tyr Ala Gly Val Gln Gln Tyr Ala Gly Pro Ala Tyr Pro Ala Ala Tyr  
 370 375 380  
 Gly Gln Ile Ser Gln Ala Phe Pro Gln Pro Pro Pro Met Ile Pro Gln  
 385 390 395 400  
 Gln Gln Arg Glu Gly Pro Glu Gly Cys Asn Leu Phe Ile Tyr His Leu  
 405 410 415  
 Pro Gln Glu Phe Gly Asp Ala Glu Leu Met Gln Met Phe Leu Pro Phe  
 420 425 430  
 Gly Asn Val Ile Ser Ser Lys Val Phe Val Asp Arg Ala Thr Asn Gln  
 435 440 445  
 Ser Lys Cys Phe Gly Phe Val Ser Phe Asp Asn Pro Ala Ser Ala Gln  
 450 455 460  
 Thr Ala Ile Gln Ala Met Asn Gly Phe Gln Ile Gly Met Lys Arg Leu  
 465 470 475 480  
 Lys Val Gln Leu Lys Arg Pro Lys Asp Ala Asn Arg Pro Tyr  
 485 490

&lt;210&gt; 235

&lt;211&gt; 826

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 235

Met Glu Gly Ala Gly Gly Ala Asn Asp Lys Lys Lys Ile Ser Ser Glu

Arg Arg Lys Glu Lys Ser Arg Asp Ala Ala Arg Ser Arg Arg Ser Lys  
     20                       25                       30  
 Glu Ser Glu Val Phe Tyr Glu Leu Ala His Gln Leu Pro Leu Pro His  
     35                       40                       45  
 Asn Val Ser Ser His Leu Asp Lys Ala Ser Val Met Arg Leu Thr Ile  
     50                       55                       60  
 Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp Ala Gly Asp Leu Asp Ile  
     65                       70                       75                       80  
 Glu Asp Asp Met Lys Ala Gln Met Asn Cys Phe Tyr Leu Lys Ala Leu  
     85                       90                       95  
 Asp Gly Phe Val Met Val Leu Thr Asp Asp Gly Asp Met Ile Tyr Ile  
     100                       105                       110  
 Ser Asp Asn Val Asn Lys Tyr Met Gly Leu Thr Gln Phe Glu Leu Thr  
     115                       120                       125  
 Gly His Ser Val Phe Asp Phe Thr His Pro Cys Asp His Glu Glu Met  
     130                       135                       140  
 Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu  
     145                       150                       155                       160  
 Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr  
     165                       170                       175  
 Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu  
     180                       185                       190  
 His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro  
     195                       200                       205  
 Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Val Leu Ile Cys  
     210                       215                       220  
 Glu Pro Ile Pro His Pro Ser Asn Ile Glu Ile Pro Leu Asp Ser Lys  
     225                       230                       235                       240  
 Thr Phe Leu Ser Arg His Ser Leu Asp Met Lys Phe Ser Tyr Cys Asp  
     245                       250                       255  
 Glu Arg Ile Thr Glu Leu Met Gly Tyr Glu Pro Glu Glu Leu Leu Gly  
     260                       265                       270  
 Arg Ser Ile Tyr Glu Tyr Tyr His Ala Leu Asp Ser Asp His Leu Thr  
     275                       280                       285  
 Lys Thr His His Asp Met Phe Thr Lys Gly Gln Val Thr Thr Gly Gln  
     290                       295                       300  
 Tyr Arg Met Leu Ala Lys Arg Gly Gly Tyr Val Trp Val Glu Thr Gln  
     305                       310                       315                       320  
 Ala Thr Val Ile Tyr Asn Thr Lys Asn Ser Gln Pro Gln Cys Ile Val  
     325                       330                       335  
 Cys Val Asn Tyr Val Val Ser Gly Ile Ile Gln His Asp Leu Ile Phe  
     340                       345                       350  
 Ser Leu Gln Gln Thr Glu Cys Val Leu Lys Pro Val Glu Ser Ser Asp  
     355                       360                       365  
 Met Lys Met Thr Gln Leu Phe Thr Lys Val Glu Ser Glu Asp Thr Ser  
     370                       375                       380  
 Ser Leu Phe Asp Lys Leu Lys Glu Pro Asp Ala Leu Thr Leu Leu  
     385                       390                       395                       400  
 Ala Pro Ala Ala Gly Asp Thr Ile Ile Ser Leu Asp Phe Gly Ser Asn  
     405                       410                       415  
 Asp Thr Glu Thr Asp Asp Gln Gln Leu Glu Glu Val Pro Leu Tyr Asn  
     420                       425                       430  
 Asp Val Met Leu Pro Ser Pro Asn Glu Lys Leu Gln Asn Ile Asn Leu  
     435                       440                       445

Ala Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser  
   450                          455                          460  
 Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu Pro  
   465                          470                          475                          480  
 Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile Gln Asp  
   485                          490                          495  
 Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser Ser Pro Glu  
   500                          505                          510  
 Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp Ser Asp Met Val  
   515                          520                          525  
 Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu Phe Ala Glu Asp Thr  
   530                          535                          540  
 Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp Thr Asp Leu Asp Leu Glu  
   545                          550                          555                          560  
 Met Leu Ala Pro Tyr Ile Pro Met Asp Asp Asp Phe Gln Leu Arg Ser  
   565                          570                          575  
 Phe Asp Gln Leu Ser Pro Leu Glu Ser Ser Ser Ala Ser Pro Glu Ser  
   580                          585                          590  
 Ala Ser Pro Gln Ser Thr Val Thr Val Phe Gln Gln Thr Gln Ile Gln  
   595                          600                          605  
 Glu Pro Thr Ala Asn Ala Thr Thr Thr Ala Thr Thr Asp Glu Leu  
   610                          615                          620  
 Lys Thr Val Thr Lys Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala  
   625                          630                          635                          640  
 Ser Pro Ser Pro Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser  
   645                          650                          655  
 Ser Pro Tyr Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala  
   660                          665                          670  
 Gly Lys Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro  
   675                          680                          685  
 Asn Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu  
   690                          695                          700  
 Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys Arg  
   705                          710                          715                          720  
 Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile Gly Thr  
   725                          730                          735  
 Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser Leu Ser Trp  
   740                          745                          750  
 Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn Gly Met Glu Gln  
   755                          760                          765  
 Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly  
   770                          775                          780  
 Gln Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys  
   785                          790                          795                          800  
 Glu Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu  
   805                          810                          815  
 Glu Leu Leu Arg Ala Leu Asp Gln Val Asn  
   820                          825

<210> 236  
 <211> 342  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 236

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Asn | Asn | Ser | Lys | His | Thr | Gly | His | Lys | Ser | Ala | Cys | Val | Pro |
|     |     |     |     |     |     |     | 5   |     |     | 10  |     |     |     |     | 15  |
| Asn | Met | Thr | Glu | Arg | Arg | Arg | Asp | Glu | Leu | Ser | Glu | Glu | Ile | Asn | Asn |
|     |     |     |     |     |     |     | 20  |     |     | 25  |     |     |     |     | 30  |
| Leu | Arg | Glu | Lys | Val | Met | Lys | Gln | Ser | Glu | Glu | Asn | Asn | Asn | Leu | Gln |
|     |     |     |     |     |     |     | 35  |     |     | 40  |     |     |     |     | 45  |
| Ser | Gln | Val | Gln | Lys | Leu | Thr | Glu | Glu | Asn | Thr | Thr | Leu | Arg | Glu | Gln |
|     |     |     |     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |
| Val | Glu | Pro | Thr | Pro | Glu | Asp | Glu | Asp | Asp | Ile | Glu | Leu | Arg | Gly |     |
|     |     |     |     |     |     | 65  |     |     | 70  |     |     |     |     | 80  |     |
| Ala | Ala | Ala | Ala | Ala | Ala | Pro | Pro | Pro | Pro | Ile | Glu | Glu | Glu | Cys | Pro |
|     |     |     |     |     |     |     | 85  |     |     | 90  |     |     |     |     | 95  |
| Glu | Asp | Leu | Pro | Glu | Lys | Phe | Asp | Gly | Asn | Pro | Asp | Met | Leu | Ala | Pro |
|     |     |     |     |     |     | 100 |     |     | 105 |     |     |     |     | 110 |     |
| Phe | Met | Ala | Gln | Cys | Gln | Ile | Phe | Met | Glu | Lys | Ser | Thr | Arg | Asp | Phe |
|     |     |     |     |     |     | 115 |     |     | 120 |     |     |     |     | 125 |     |
| Ser | Val | Asp | Arg | Val | Arg | Val | Cys | Phe | Val | Thr | Ser | Met | Met | Thr | Gly |
|     |     |     |     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |
| Arg | Ala | Ala | Arg | Trp | Ala | Ser | Ala | Lys | Leu | Glu | Arg | Ser | His | Tyr | Leu |
|     |     |     |     |     |     | 145 |     |     | 150 |     |     |     |     | 160 |     |
| Met | His | Asn | Tyr | Pro | Ala | Phe | Met | Met | Glu | Met | Lys | His | Val | Phe | Glu |
|     |     |     |     |     |     | 165 |     |     | 170 |     |     |     |     | 175 |     |
| Asp | Pro | Gln | Arg | Arg | Glu | Val | Ala | Lys | Arg | Lys | Ile | Arg | Arg | Leu | Arg |
|     |     |     |     |     |     | 180 |     |     | 185 |     |     |     |     | 190 |     |
| Gln | Gly | Met | Gly | Ser | Val | Ile | Asp | Tyr | Ser | Asn | Ala | Phe | Gln | Met | Ile |
|     |     |     |     |     |     | 195 |     |     | 200 |     |     |     |     | 205 |     |
| Ala | Gln | Asp | Leu | Asp | Trp | Asn | Glu | Pro | Ala | Leu | Ile | Asp | Gln | Tyr | His |
|     |     |     |     |     |     | 210 |     |     | 215 |     |     |     |     | 220 |     |
| Glu | Gly | Leu | Ser | Asp | His | Ile | Gln | Glu | Glu | Leu | Ser | His | Leu | Glu | Val |
|     |     |     |     |     |     | 225 |     |     | 230 |     |     |     |     | 240 |     |
| Ala | Lys | Ser | Leu | Ser | Ala | Leu | Ile | Gly | Gln | Cys | Ile | His | Ile | Glu | Arg |
|     |     |     |     |     |     | 245 |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Leu | Ala | Arg | Ala | Ala | Ala | Arg | Lys | Pro | Arg | Ser | Pro | Pro | Arg |     |
|     |     |     |     |     |     | 260 |     |     | 265 |     |     |     |     | 270 |     |
| Ala | Leu | Val | Leu | Pro | His | Ile | Ala | Ser | His | His | Gln | Val | Asp | Pro | Thr |
|     |     |     |     |     |     | 275 |     |     | 280 |     |     |     |     | 285 |     |
| Glu | Pro | Val | Gly | Gly | Ala | Arg | Met | Arg | Leu | Thr | Gln | Glu | Glu | Lys | Glu |
|     |     |     |     |     |     | 290 |     |     | 295 |     |     |     |     | 300 |     |
| Arg | Arg | Arg | Lys | Leu | Asn | Leu | Cys | Leu | Tyr | Cys | Gly | Thr | Gly | Gly | His |
|     |     |     |     |     |     | 305 |     |     | 310 |     |     |     |     | 320 |     |
| Tyr | Ala | Asp | Asn | Cys | Pro | Ala | Lys | Ala | Ser | Lys | Ser | Ser | Pro | Ala | Gly |
|     |     |     |     |     |     | 325 |     |     | 330 |     |     |     |     | 335 |     |
| Asn | Ser | Pro | Ala | Pro | Leu |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     |     | 340 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 237

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

ccagtgtggt ggaattccag ctcgtgccg ggagtgcgg cattgtggc cgcttctcg 60  
 cactatgtcg ggtggcctcc tgaaggcgct gcgcacgcac tcctacgtgg agctgagcca 120  
 gtaccgggac cagcaattcc ggggtgacaa tgaagaacaa gaaaaattac tgaagaaaag 180  
 ctgtacgtta tatgttggaa atctttctt ttacacaact gaagaacaaa tctatgaact 240  
 cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300  
 agcatgtgga ttctgttttgg tggatatatta ctcacgcgca gatgcggaaa acgccccatgcg 360  
 gtacataaaat gggacgcgtc tggatgaccc aatcattcgc aca 403

<210> 238

<211> 183

<212> DNA

<213> Homo sapiens

<400> 238

tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt 60  
 acataactta cggtaaatgg cccgcctgac tgaccgcac acgacccccc cccattgacg 120  
 tcaataatga cgtatgttcc catagtaaacg ccaataggga ctttccatttgc acgtcaatgg 180  
 gtg 183

<210> 239

<211> 403

<212> DNA

<213> Homo sapiens

<400> 239

tttttagtgc ttctttcatg ggaatagtca cttttttatt tagtaaatcg cattgctgga 60  
 accaccaagg agtgtggaaat gtccttgcgt gtattattta tgcaagtac agtcacgttg 120  
 ccatcatggc agctatgtga aacactaata aatgttggatt tacttttat tcccgtaaa 180  
 actgtatgtaa aacaggataa aggcttgcgt tagtactta taagtatctg ggtctaagta 240  
 atttccttag atgtttctaa agaaacattt tcagcttgc tcccattatg attccaataa 300  
 ggaacgcgtt cctagtgc aaatggatgtt aaagttgaa gagataaaaa tagccaaaga 360  
 taggagacgt ctgaattttg aatgataaac agtgtatgtt taa 403

<210> 240

<211> 3148

<212> DNA

<213> Homo sapiens

<400> 240

aacctctcggaagatgagg cagtttggca tctgtggccg agttgtgtt gccgggtgat 60  
 agttggagcg gagacttagc ataatggcag aacctgtttc tccactgaag cactttgtgc 120  
 tggctaaagaa ggcgattact gcagtcatttgc accagttact ggagttgtt actgaaggat 180  
 cacatttgt tgaagcaaca tataagaatc cggaaacttgc tcgaatagcc actgaagatg 240  
 atctggtaga aatgcacggata aatggacata agcttccat cattggtagt gtgttatctc 300  
 ggagacacat gaagttggca ttttttggca ggacaaggcag tggaaagagc tctgttatca 360  
 atgcaatgtt gtggataaa gttctccctt gtgggattttgc ccatataacc aattgtttcc 420  
 taagtgttgc aggaactgtt gggatataaag cctatcttgc gacagaaggatc tcaatgttgc 480  
 aaaagagtgtt gaagacacgtt aatcaacttgc cccatgcctt tcacatggac aaagatttgc 540  
 aagctggctgt tcttgcgt gtgttttggc caaaagcaaa atgtgccttc ttgagagatg 600  
 acctgggttttgc agtagacagt ccaggcacat atgtcactac agagctggat agctggatttgc 660  
 ataagtttttgc cctatgtgtt gatgtttttgc ttttggcgc aaactcttgc tcaacactaa 720  
 tgaatacggaaaacacttttttgc tttcacaagg tgaatggatgc gctttccaag cctaatattt 780  
 tcattctcaa taatcggttgc gatgccttgc catcagagcc agaataatatg gaagacgtac 840  
 gcagacacgtt catggaaaaga tgcctgcatt tcttggatggc ggagctcaaa gttgttgc 900



&lt;213&gt; Homo sapiens

&lt;400&gt; 242

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| cgggccctgg  | ggctcggag  | tcggggcgg   | tggcacagt   | cggctactct  | tgatcctctc  | 60   |
| cggctctt    | gtctacggca | cagctgaaac  | tgatgtaaat  | gtggcatgc   | ttcaggaatc  | 120  |
| ccaagttgt   | gaaaacgtg  | ccagccaaca  | attctgtac   | acaaatgtgc  | ttatcccaa   | 180  |
| atggcatgt   | atatggacac | ggatacagat  | ccgagtaaat  | agttccagat  | tggttcgagt  | 240  |
| caccagggt   | gagaatgagg | agaaaactgaa | ggagctagag  | cagtttagta  | tctggaactt  | 300  |
| ttttcctcc   | ttttaaaag  | agaaaattgaa | tgacacctat  | gttaacgtgg  | gtctatacag  | 360  |
| cacaaaaacc  | tgcctcaaag | ttgagattat  | agagaaggac  | accaagtaca  | gtgtcattgt  | 420  |
| gatccggaga  | tttgatccca | aactcttct   | tgtttcctt   | cttggactta  | tgctatTTT   | 480  |
| ttgtggagac  | ttgctgagca | gaagtcaa    | tttctactac  | tctactggg   | tgactgtggg  | 540  |
| aattgtggcc  | tctctgctaa | tcatcattt   | tatactatct  | aagtttatgc  | ctaagaaaag  | 600  |
| tcccattac   | gtcatcctgg | tgggaggctg  | gtcttttct   | ctgtaccta   | ttcaactagt  | 660  |
| ttttaaaat   | ttacaagaga | tctggaggt   | ttactggcag  | tatctttaa   | gttatgtct   | 720  |
| cacagttgga  | ttcatgagtt | ttgcagtatg  | ttacaagat   | ggggccctgg  | agaatgaacg  | 780  |
| aagtatcaac  | ctgctgac   | ggaccttgca  | gctgatggc   | ctgtgttca   | tgtattctgg  | 840  |
| catccagata  | ccacatattg | cccttgccat  | tatcatcatt  | gcttttgc    | ctaagaacct  | 900  |
| ggaacaccct  | attcagtggc | tgtacatcac  | ctgcagaaag  | gtgtgttaagg | gagcagaaaa  | 960  |
| gcctgttccc  | cctcgctc   | tgacagaaga  | agaatatcg   | atacaaggag  | agtagaaac   | 1020 |
| cgaaaggct   | ttagaggagc | tccgagaatt  | ttgtaacagt  | ccagactgt   | ctgttggaa   | 1080 |
| gactgtttct  | cgaatccagt | ctccaaaaag  | atttgcgtac  | tttggaaag   | gctcttccca  | 1140 |
| cctcacgcca  | aatgaagttt | ctgtccatga  | gcaggagat   | ggatttagga  | gcattattgc  | 1200 |
| ccaggatgaa  | atctatgagg | aagcatcctc  | tgaggaggag  | gactcatatt  | ctcggtgtcc  | 1260 |
| tgctatcaca  | cagaacaact | ttctaacc    | ggtagtggtc  | agttatctt   | acgtggactg  | 1320 |
| gcttggtggc  | ttggtccatg | ttgcatgtgt  | tgtgcaattt  | ctttcaaccc  | tttggaaacag | 1380 |
| agttagat    | ataggtaga  | aattctccta  | ctgaaataag  | aggcctaaaa  | aggcctccct  | 1440 |
| ttggaaatgg  | gaggctct   | ttggatcc    | gaggaaggag  | agtggataaa  | gtagtgaatg  | 1500 |
| ctggtagtt   | cacttccat  | ttgtaagct   | aacagcccac  | ttttatgttt  | ccagagaaat  | 1560 |
| tggatggcca  | cagctagcat | ggcattctag  | ctcccttctt  | aaagttgatt  | caatcatggc  | 1620 |
| atttctgtca  | ctggctggct | ctccaaagta  | agaactgtt   | ttaagtgcag  | gaatgtttt   | 1680 |
| agactatagg  | ctgcaacttc | cagagagaaa  | tccacaaatc  | tgagcctcct  | tcactccagc  | 1740 |
| ttttatTTca  | gtgactttag | aataattatt  | gattaactg   | ttttgggagg  | aaaatagatt  | 1800 |
| tttattgttt  | tgtttttaa  | atgaatgtct  | tttaaaaaaac | ataacaaact  | catgttccag  | 1860 |
| aaccagcaag  | tgctccagag | tgacacaccc  | cctaggcccc  | tacatattt   | ttaatatgga  | 1920 |
| ttatccatta  | aagccccagg | agctgttgtt  | ttaagcttt   | atttagtct   | catacatatg  | 1980 |
| atagaaagtc  | ctatttgcct | tttagaacat  | gcctgttagc  | tcttctgcag  | gtgagatgt   | 2040 |
| ctgggctttt  | tattatattc | aactttcaat  | tccatcttaa  | aaaacattt   | tattcttctc  | 2100 |
| ttcccattct  | tccttaccct | gccttgc     | tttcaggaag  | ggtcagtcc   | cttacctgt   | 2160 |
| aactatgtat  | ttcagagat  | gcattattcc  | tgctagctag  | gagaagtcat  | cttgtttagg  | 2220 |
| ggatttggat  | gtttttata  | cggttccat   | tttccgtca   | ttgggtcatg  | ttatctttga  | 2280 |
| gttgctatga  | aatcaggaaa | ctgtctcc    | ttcccttccc  | ttccttgc    | tacatgctct  | 2340 |
| gtccattcc   | ttcagcc    | tctcaccacc  | catactcccc  | caaactggg   | taatTTTaa   | 2400 |
| gccttggaaac | tatgttagtt | tttgatac    | aatttgcgt   | tatgcagcag  | ccacaattt   | 2460 |
| cattgccagg  | aaataggctc | caggttatct  | tcatgcct    | gggtgctcat  | tca         | 2520 |
| agtttccatg  | aacttacact | tatttatgt   | tgccgttct   | acctgagatg  | tatgtgcct   | 2580 |
| gttattgcag  | tagcattat  | ttcagattt   | tttgcattt   | caaagtaccc  | cttataaacc  | 2640 |
| agcaatgtca  | tctgtggag  | agcaaattt   | caagtgtct   | tcatttactt  | ggttctttt   | 2700 |
| cttggggc    | ttcaccc    | taccctggaa  | aagtctgtaa  | ttaccttagc  | caggaagata  | 2760 |
| gatggcat    | gcaagcgac  | agcaccagac  | ttactggc    | accaagatga  | tggaaaaagg  | 2820 |
| cagatgatt   | tttaaaagc  | cgtaatgact  | cctttagacc  | agccattt    | cgtggtaatt  | 2880 |
| ttgaaaggcc  | tagctcc    | gcagacttcc  | aaagggtcag  | ctctgagact  | gccctccagg  | 2940 |
| tggcagtt    | attatttcca | ccagtgtttt  | ccagagc     | aaactgtcct  | aagtgacaac  | 3000 |
| tacctcagtt  | ggcagaaag  | agacatata   | tagaaagtga  | aaaatgagca  | gtatttggc   | 3060 |

<210> 243

<211> 303

<212> DNA

<213> Homo sapiens

<400> 243

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ccgctcgccgc caccggctca tccgtgagag cctacaggtg gtgcgcagcc gagacctggcg 180
agctcaccgc atgccttct tggaggccgc gggccacaag ctggcgccca agaaggagggg 240
cgtggggcgcc cccgcagact accacgctct gggcgctatg gaggtcatct gcaaatagtat 300

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ggc

303

&lt;210&gt; 244

&lt;211&gt; 2393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

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 cgcctcgcc tccaggctt accccggagcc gtcgcatgg gagagccagc cttggcgct 120  
 ggggaccagc cgccgcgcc gcctcgaga ctgcggccga gtcccgccgc cagcagccag 180  
 cccgctcggt cccctccccg ggctgcaggg ctgcctccgc cgcgcgcgc gcccggattg 240  
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 gacgcgcgtg gcccgcgtcc cctctcgaa tgaagggtt ccgttaggaag gcgtggtgt 420  
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 ggcacaagga gccgcgtcag cagtcaacc ccgatggggc gctgggtgcc gcagcggggg 540  
 cagccggagg caagctgggg gcgcggagg ccgcctccgg cccggccccc ccgtgcctcat 600  
 gcccgtttgg acctccgcac tccttaccgc cctccgcgtg ccgcgtcgg ggcataactc 660  
 tgcagccgcg gcaggatgg cgggggttgc gcccctcca ggcaatggca ctggggcac 720  
 cggagggcgt cggggacaag cggcacttgg tgcgtgtt caccacgtgg cgctctggct 780  
 cgtcggttcc cggcgagcta ttcaaccaga atcccgaggt gtttttctc tacgagccag 840  
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 gggacatgtt gagcgtctt taccgcgtcg acctctctgt cttccagggt tatagcccc 960  
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 ccagactcaa acggaggaag cccacatatt ctattataga tatataaata atcacacaca 1980  
 cacttgcgtt caatgttttgc agtcgttgc ttcaaggaa cagccacaaa atacacaccc 2040  
 ctaagaaaag gcaagacttgc aacgttgcgc ccaggtgcgc ctcttcttct ttgccttctc 2100  
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 tgtaatgaa atcaagttcc agtaacccaa atctgttttcaaaatattt gttgtatctg 2220  
 tgaacatgtt aagagtaatt tggatgtggg ggtgggggtt gagaaaggaa aagttgtcca 2280  
 gaaacaaaaaa gccccattgg gcatgataag ccgaggagcc attcttcata aaagtagact 2340  
 ttgtgtaaa aagcaaaggat tacatgttag tattaataaa gaagataata aat 2393

&lt;210&gt; 245

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 245

ccaacacagt cagaaacatt gtttgaatc ctctgtaaac caaggcatta atcttaataa 60  
 accaggatcc atttaggtac cacttgatat aaaaaggata tccataatga atattttata 120  
 ctgcacatcct tacat tagcc actaaatacg ttat tgccttgc atgaagacct ttcacagaat 180  
 cctatggatt gcagcatttc acttggctac ttcat accca tgcctt aaag agggcagtt 240  
 tctcaaaaagc agaaacatgc cgccagtttca caagtttcc tcctaactcc atttgaatgt 300  
 aagggcagct ggcccccaat gtggggaggt ccgaacattt tctgaattcc cattttctt 360  
 ttccggctca aatgacagtt tctgtcatta ctttagattcc gatcttccc aaagggttgt 420  
 atttacaaag aggccagcta atagcagaaa tcatgaccct gaaagagaga tga 473

&lt;210&gt; 246

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 246

ggcattaact tttagaattt gggctggta gattaatttt ttttaatatac ccagctagag 60  
 atatggcctt taactgaccc taaagagggtgt gttgtgattt aattttttcc cgttcccttt 120  
 tcttcagtaa acccaacaat agtctaaccc taaaaattga gttgtatgtcc ttat taggtca 180  
 ctacccctaa ataaacctga agcagggttt ttctcttgaa catactaaaa aataccctaaa 240  
 aggaagctta gatggctgtt gacacaaaaaa attcaattac tgtcatctaa tgccagctgt 300  
 taaaagtgtt gccactgagc atttgatttt ataggaaaaaa atagtatttt tgagaataac 360  
 atagctgtgc tattgcacat ctgttggagg acatcccaga tttgcttata ctcagtgcc 420  
 gtgatattga gtttaaggat ttgaggcagg ggttaattttaa aacatattt cttctattct 480  
 tggaaaaataa gaagtgtaaa atgttaataaa tac 513

&lt;210&gt; 247

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

ccagtgtggc ggaattcgcg gtaggctggg accataacac aagcatgact atatgaagga 60  
 agaggaaggt tttcctgaag atgaggcgcac tgaatcgaa aaaaacttta agtttggtaa 120  
 aagagttgga tgccttccg aaggttcctg agagctatgt agagacttca gccagtggag 180  
 gtacagtttc tctaatacgca tttacaacta tggcttattt aaccataatg gaattctcag 240  
 tatatacaaga tacatggatg aagtatgaat acgaagttaga caaggatttt tctagcaa 300  
 taagaattaa tatagatatt actgttgcca tgaagtgtca atatgttggaa gcggatgtat 360  
 tggatttagc agaaacaatg gttgcacatcg cagatggttt agtttatgaa ccaacagtat 420  
 ttgatcttcc accacagcag aaagagtggc agaggatgct gcagctgattt cagagtaggc 480  
 tacaagaaga gcattcactt caagatgtga tattttaaag tgctttaaa agt 533

&lt;210&gt; 248

&lt;211&gt; 1362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

gggacccggg cttctgtgaa acatggcggt aggctggac cataacacaa gcatgactat 60  
 atgaaggaag aggaaggttt tcctgaagat gaggcgactg aatcgaaaaaa aaactttaag 120  
 ttggtaaaa gagttggatg ctttccgaa ggttccctgag agctatgttag agacttcagc 180  
 cagtggaggt acagttctc taatagcatt tacaactatg gctttattaa ccataatggaa 240  
 attctcagta tatcaagata catggatgaa gtatgaatac gaagttagaca aggatttttc 300  
 tagcaaattaa agaattaata tagatattac tggccatg aagtgtcaat atgttggagc 360

ggatgtattt gatttagcag aaacaatgg tgcacatcgca gatggtttag tttatgaacc 420  
 aacagtattt gatcttcac cacagcagaa agatggcag aggatgctgc agctgattca 480  
 gagtaggcta caagaagagc attcaactca agatgtgata tttaaaaatgt cttttaaaag 540  
 tacatcaaca gctctccac caagagaaga tgattcatca cagtctccaa atgcatgcag 600  
 aattcatggc catctatatg tcaataaaatgt agcaggaaat tttcacataa cagtgccaa 660  
 ggcaattcca catcctcgtg gtcatgcaca ttggccgac acttgtcaac catggatct 720  
 tacaatttt tctcatagaa tagatcattt gtcttttggg gagcttggc cagcaattat 780  
 taatcctta gatggactg aaaaaattgc tatacatc aaccagatgt tccaatattt 840  
 tattacagtt gtgcaccaa aactacatac atataaaata tcagcagaca cccatcgtt 900  
 ttctgtgaca gaaagggAAC gtatcattaa ccattgtcgc ggcagccatg gagtctctgg 960  
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 atcctataaa cctgtcaattt ctgttcctt tgaggatggc cacacagaca accacttacc 1200  
 tcttttagaa aataatacac attaacacctt cccgattggaa ggagaaaaaac ttttgcctg 1260  
 agacataaaaaa ctttttttta ataataaaaat attgtgcaat atattcaag aaaagaaaaac 1320  
 acaaataagc agaaaaacata cttattttaa aaaaaaaaaaa aa 1362

<210> 249  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(513)  
 <223> n = A,T,C or G

<400> 249  
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 attcaaggag tacctctctc tagaactgtt cgctgtaccc gcatcagcat tagtaatcaa 180  
 cctgttaatc caaggtctttt agaaaaaactt gaaatttattt ctgcaagccaa attttgcctt 240  
 cgtgttgaga tcattgttac aatgaaaaaag aagggtgaga agagatgtct gaatccagaa 300  
 tcgaaggccaa tcaagaatttt actgaaagca gttagcaagg aaaggtctaa aagatctcct 360  
 taaaaccaga ggggagcaaa atcgatgcag tgcttccaaag gatggaccac acagaggctg 420  
 cctctcccat cacttccctt catggatgtt atgtcaagcc ataattgttc ttagtttgca 480  
 gttacactaa aaggtgacca atcatggtca cca 513

<210> 250  
 <211> 1172  
 <212> DNA  
 <213> Homo sapiens

<400> 250  
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 attcaaggag tacctctctc tagaaccgtt cgctgtaccc gcatcagcat tagtaatcaa 180  
 cctgttaatc caaggtctttt agaaaaaactt gaaatttattt ctgcaagccaa attttgcctt 240  
 cgtgttgaga tcattgttac aatgaaaaaag aagggtgaga agagatgtct gaatccagaa 300  
 tcgaaggccaa tcaagaatttt actgaaagca gttagcaagg aaatgtctaa aagatctcct 360  
 taaaaccaga ggggagcaaa atcgatgcag tgcttccaaag gatggaccac acagaggctg 420  
 cctctcccat cacttccctt catggatgtt atgtcaagcc ataattgttc ttagtttgca 480  
 gttacactaa aaggtgacca atcatggtca ccaatcagc tgctactact cctgttagaa 540

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ggtaatgtt catcatccta agctatttcg taataactct accctggcac tataatgtaa 600
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acctttccca tcttccaagg gtactaagga atctttctgc ttgggggttt atcagaattc 720
tcagaatctc aaataactaa aaggtatgca atcaaatctg ctttttaaag aatgctctt 780
acttcatgga ctccactgc catcctccca aggggccccaa attcttcag tggctaccta 840
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cttatttaat gaaagactgt acaaagtata agtcttagat gtatatattt cctatattgt 960
tttcagtgta catggaataa catgtatatta agtactatgt atcaatgagt aacaggaaaa 1020
ttttaaaaat acagatagat atatgctctg catgttacat aagataaatg tgctgaatgg 1080
ttttcaaaa aaaaatgaggt actctccctgg aaatattaag aaagactatc taaatgttga 1140
aagatcaaaa ggttaataaa gtaattataa ct 1172

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<210> 251  
<211> 483  
<212> DNA  
<213> *Homo sapiens*

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<400> 251
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acaatctcat catcctgaag cctataatga agaaaaagat ctagaaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggcccttgaa ctttcataagg 240
aaaaatgacc caacatttct tagcatgagc tacctcatct ctagaaagctg ggatggactt 300
actattcttgc ttatattttt agataactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcaggqctaa aaaggatatta ttattttcc tttaatgatg gtgctaaaaat 420
tcttcctata aaattcctta aaaataaaga tggtttaatc actaccattg taaaaacata 480
act

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<210> 252  
<211> 156  
<212> PRT  
<213> *Homo sapiens*

<210> 253  
<211> 370  
<212> PRT  
<213> Homo sapiens

<400> 253  
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Ala Ile Thr Ala Val Phe Asp Gln Leu Leu Glu Phe Val Thr Glu Gly  
20 25 30  
Ser His Phe Val Glu Ala Thr Tyr Lys Asn Pro Glu Leu Asp Arg Ile  
35 40 45  
Ala Thr Glu Asp Asp Leu Val Glu Met Gln Gly Tyr Lys Asp Lys Leu  
50 55 60  
Ser Ile Ile Gly Glu Val Leu Ser Arg Arg His Met Lys Val Ala Phe  
65 70 75 80  
Phe Gly Arg Thr Ser Ser Gly Lys Ser Ser Val Ile Asn Ala Met Leu  
85 90 95  
Trp Asp Lys Val Leu Pro Ser Gly Ile Gly His Ile Thr Asn Cys Phe  
100 105 110  
Leu Ser Val Glu Gly Thr Asp Gly Asp Lys Ala Tyr Leu Met Thr Glu  
115 120 125  
Gly Ser Asp Glu Lys Lys Ser Val Lys Thr Val Asn Gln Leu Ala His  
130 135 140  
Ala Leu His Met Asp Lys Asp Leu Lys Ala Gly Cys Leu Val Arg Val  
145 150 155 160  
Phe Trp Pro Lys Ala Lys Cys Ala Leu Leu Arg Asp Asp Leu Val Leu  
165 170 175  
Val Asp Ser Pro Gly Thr Asp Val Thr Thr Glu Leu Asp Ser Trp Ile  
180 185 190  
Asp Lys Phe Cys Leu Asp Ala Asp Val Phe Val Leu Val Ala Asn Ser  
195 200 205  
Glu Ser Thr Leu Met Asn Thr Glu Lys His Phe Phe His Lys Val Asn  
210 215 220  
Glu Arg Leu Ser Lys Pro Asn Ile Phe Ile Leu Asn Asn Arg Trp Asp  
225 230 235 240  
Ala Ser Ala Ser Glu Pro Glu Tyr Met Glu Asp Val Arg Arg Gln His  
245 250 255  
Met Glu Arg Cys Leu His Phe Leu Val Glu Glu Leu Lys Val Val Asn  
260 265 270  
Ala Leu Glu Ala Gln Asn Arg Ile Phe Phe Val Ser Ala Lys Glu Val  
275 280 285  
Leu Ser Ala Arg Lys Gln Lys Ala Gln Gly Met Pro Glu Ser Gly Val  
290 295 300  
Ala Leu Ala Glu Gly Phe His Ala Arg Leu Gln Glu Phe Gln Asn Phe  
305 310 315 320  
Glu Gln Ile Phe Glu Glu Cys Ile Ser Gln Ser Ala Val Lys Thr Lys  
325 330 335  
Phe Glu Gln His Thr Ile Arg Ala Lys Gln Ile Leu Ala Thr Val Lys  
340 345 350  
Asn Ile Met Asp Ser Val Asn Leu Ala Ala Glu Asp Lys Arg Phe His  
355 360 365

Val Gln  
370

<210> 254  
<211> 429  
<212> PRT  
<213> Homo sapiens

<400> 254  
Gly Pro Trp Gly Ser Gly Val Gly Gly Thr Val Arg Leu Leu  
5 10 15  
Leu Ile Leu Ser Gly Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val  
20 25 30  
Asn Val Val Met Leu Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser  
35 40 45  
Gln Gln Phe Cys Tyr Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile  
50 55 60  
Trp Thr Arg Ile Gln Ile Arg Val Asn Ser Ser Arg Leu Val Arg Val  
65 70 75 80  
Thr Gln Val Glu Asn Glu Glu Lys Leu Lys Glu Leu Glu Gln Phe Ser  
85 90 95  
Ile Trp Asn Phe Phe Ser Ser Phe Leu Lys Glu Lys Leu Asn Asp Thr  
100 105 110  
Tyr Val Asn Val Gly Leu Tyr Ser Thr Lys Thr Cys Leu Lys Val Glu  
115 120 125  
Ile Ile Glu Lys Asp Thr Lys Tyr Ser Val Ile Val Ile Arg Arg Phe  
130 135 140  
Asp Pro Lys Leu Phe Leu Val Phe Leu Leu Gly Leu Met Leu Phe Phe  
145 150 155 160  
Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr Tyr Ser Thr Gly  
165 170 175  
Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile Ile Phe Ile Leu  
180 185 190  
Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val Ile Leu Val Gly  
195 200 205  
Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val Phe Lys Asn Leu  
210 215 220  
Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu Ser Tyr Val Leu  
225 230 235 240  
Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys Tyr Gly Pro Leu  
245 250 255  
Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr Leu Gln Leu Met  
260 265 270  
Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro His Ile Ala Leu  
275 280 285  
Ala Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu Glu His Pro Ile  
290 295 300  
Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys Gly Ala Glu Lys  
305 310 315 320  
Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr Arg Ile Gln Gly  
325 330 335  
Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg Glu Phe Cys Asn  
340 345 350

Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg Ile Gln Ser Pro  
     355                 360                 365  
 Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His Leu Thr Pro Asn  
     370                 375                 380  
 Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly Ser Ile Ile Ala  
     385                 390                 395                 400  
 Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu Glu Asp Ser Tyr  
     405                 410                 415  
 Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu Thr  
     420                 425

<210> 255  
 <211> 531  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
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 Leu Leu Gln Ala Ala Pro Ala Ala Gln Pro Arg Ala Leu Leu Pro Gln  
     20                 25                 30  
 Trp Pro Arg Arg Pro Gly Arg Arg Trp Pro Ala Ser Pro Leu Gly Met  
     35                 40                 45  
 Lys Val Phe Arg Arg Lys Ala Leu Val Leu Cys Ala Gly Tyr Ala Leu  
     50                 55                 60  
 Leu Leu Val Leu Thr Met Leu Asn Leu Leu Asp Tyr Lys Trp His Lys  
     65                 70                 75                 80  
 Glu Pro Leu Gln Gln Cys Asn Pro Asp Gly Pro Leu Gly Ala Ala Ala  
     85                 90                 95  
 Gly Ala Ala Gly Gly Lys Leu Gly Ala Pro Arg Ala Ala Ser Gly Arg  
     100                 105                 110  
 Ala Ala Pro Cys Ser Cys Pro Phe Gly Pro Pro His Ser Leu Pro Pro  
     115                 120                 125  
 Ser Arg Cys Arg Arg Arg Gly Asp Thr Leu Gln Pro Arg Gln Gly Trp  
     130                 135                 140  
 Arg Gly Leu Arg Pro Leu Gln Ala Met Ala Leu Gly Ala Pro Glu Gly  
     145                 150                 155                 160  
 Val Gly Asp Lys Arg His Trp Met Tyr Val Phe Thr Thr Trp Arg Ser  
     165                 170                 175  
 Gly Ser Ser Phe Phe Gly Glu Leu Phe Asn Gln Asn Pro Glu Val Phe  
     180                 185                 190  
 Phe Leu Tyr Glu Pro Val Trp His Val Trp Gln Lys Leu Tyr Pro Gly  
     195                 200                 205  
 Asp Ala Val Ser Leu Gln Gly Ala Ala Arg Asp Met Leu Ser Ala Leu  
     210                 215                 220  
 Tyr Arg Cys Asp Leu Ser Val Phe Gln Leu Tyr Ser Pro Ala Gly Ser  
     225                 230                 235                 240  
 Gly Gly Arg Asn Leu Thr Thr Leu Gly Ile Phe Gly Ala Ala Thr Asn  
     245                 250                 255  
 Lys Val Val Cys Ser Ser Pro Leu Cys Pro Ala Tyr Arg Lys Glu Val  
     260                 265                 270  
 Val Gly Leu Val Asp Asp Arg Val Cys Lys Lys Cys Pro Pro Gln Arg  
     275                 280                 285

Leu Ala Arg Phe Glu Glu Cys Arg Lys Tyr Arg Thr Leu Val Ile  
 290 295 300  
 Lys Gly Val Arg Val Phe Asp Val Ala Val Leu Ala Pro Leu Leu Arg  
 305 310 315 320  
 Asp Pro Ala Leu Asp Leu Lys Val Ile His Leu Val Arg Asp Pro Arg  
 325 330 335  
 Ala Val Ala Ser Ser Arg Ile Arg Ser Arg His Gly Leu Ile Arg Glu  
 340 345 350  
 Ser Leu Gln Val Val Arg Ser Arg Asp Pro Arg Ala His Arg Met Pro  
 355 360 365  
 Phe Leu Glu Ala Ala Gly His Lys Leu Gly Ala Lys Lys Glu Gly Val  
 370 375 380  
 Gly Gly Pro Ala Asp Tyr His Ala Leu Gly Ala Met Glu Val Ile Cys  
 385 390 395 400  
 Asn Ser Met Ala Lys Thr Leu Gln Thr Ala Leu Gln Pro Pro Asp Trp  
 405 410 415  
 Leu Gln Gly His Tyr Leu Val Val Arg Tyr Glu Asp Leu Val Gly Asp  
 420 425 430  
 Pro Val Lys Thr Leu Arg Arg Val Tyr Asp Phe Val Gly Leu Leu Val  
 435 440 445  
 Ser Pro Glu Met Glu Gln Phe Ala Leu Asn Met Thr Ser Gly Ser Gly  
 450 455 460  
 Ser Ser Ser Lys Pro Phe Val Val Ser Ala Arg Asn Ala Thr Gln Ala  
 465 470 475 480  
 Ala Asn Ala Trp Arg Thr Ala Leu Thr Phe Gln Gln Ile Lys Gln Val  
 485 490 495  
 Glu Glu Phe Cys Tyr Gln Pro Met Ala Val Leu Gly Tyr Glu Arg Val  
 500 505 510  
 Asn Ser Pro Glu Glu Val Lys Asp Leu Ser Lys Thr Leu Leu Arg Lys  
 515 520 525  
 Pro Arg Leu  
 530

<210> 256  
 <211> 378  
 <212> PRT  
 <213> Homo sapiens

<400> 256

|   |     |     |    |
|---|-----|-----|----|
| Met Arg Arg Leu Asn Arg Lys Lys Thr Leu Ser Leu Val Lys Glu Leu |     |     |    |
| 5   | 10  | 15  |    |
| Asp Ala Phe Pro Lys Val Pro Glu Ser Tyr Val Glu Thr Ser Ala Ser |     |     |    |
| 20  | 25  | 30  |    |
| Gly Gly Thr Val Ser Leu Ile Ala Phe Thr Thr Met Ala Leu Leu Thr |     |     |    |
| 35  | 40  | 45  |    |
| Ile Met Glu Phe Ser Val Tyr Gln Asp Thr Trp Met Lys Tyr Glu Tyr |     |     |    |
| 50  | 55  | 60  |    |
| Glu Val Asp Lys Asp Phe Ser Ser Lys Leu Arg Ile Asn Ile Asp Ile |     |     |    |
| 65  | 70  | 75  | 80 |
| Thr Val Ala Met Lys Cys Gln Tyr Val Gly Ala Asp Val Leu Asp Leu |     |     |    |
| 85  | 90  | 95  |    |
| Ala Glu Thr Met Val Ala Ser Ala Asp Gly Leu Val Tyr Glu Pro Thr |     |     |    |
| 100   | 105 | 110 |    |

Val Phe Asp Leu Ser Pro Gln Gln Lys Glu Trp Gln Arg Met Leu Gln  
 115 120 125  
 Leu Ile Gln Ser Arg Leu Gln Glu Glu His Ser Leu Gln Asp Val Ile  
 130 135 140  
 Phe Lys Ser Ala Phe Lys Ser Thr Ser Thr Ala Leu Pro Pro Arg Glu  
 145 150 155 160  
 Asp Asp Ser Ser Gln Ser Pro Asn Ala Cys Arg Ile His Gly His Leu  
 165 170 175  
 Tyr Val Asn Lys Val Ala Gly Asn Phe His Ile Thr Val Gly Lys Ala  
 180 185 190  
 Ile Pro His Pro Arg Gly His Ala His Leu Gly Ser Thr Cys Gln Pro  
 195 200 205  
 Trp Asn Leu Thr Ile Phe Ser His Arg Ile Asp His Leu Ser Phe Gly  
 210 215 220  
 Glu Leu Val Pro Ala Ile Ile Asn Pro Leu Asp Gly Thr Glu Lys Ile  
 225 230 235 240  
 Ala Ile Asp His Asn Gln Met Phe Gln Tyr Phe Ile Thr Val Val Pro  
 245 250 255  
 Thr Lys Leu His Thr Tyr Lys Ile Ser Ala Asp Thr His Gln Phe Ser  
 260 265 270  
 Val Thr Glu Arg Glu Arg Ile Ile Asn His Ala Ala Gly Ser His Gly  
 275 280 285  
 Val Ser Gly Ile Phe Met Lys Tyr Asp Leu Ser Ser Leu Met Val Thr  
 290 295 300  
 Val Thr Glu Glu His Met Pro Phe Trp Gln Phe Phe Val Arg Leu Cys  
 305 310 315 320  
 Gly Ile Val Gly Ile Phe Ser Thr Thr Gly Met Leu His Gly Ile  
 325 330 335  
 Gly Lys Phe Ile Val Glu Ile Ile Cys Cys Arg Phe Arg Leu Gly Ser  
 340 345 350  
 Tyr Lys Pro Val Asn Ser Val Pro Phe Glu Asp Gly His Thr Asp Asn  
 355 360 365  
 His Leu Pro Leu Leu Glu Asn Asn Thr His  
 370 375

<210> 257  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 257

|   |    |    |    |
|---|----|----|----|
| Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu |    |    |    |
| 5   | 10 | 15 |    |
| Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys |    |    |    |
| 20  | 25 | 30 |    |
| Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu |    |    |    |
| 35  | 40 | 45 |    |
| Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala |    |    |    |
| 50  | 55 | 60 |    |
| Thr Met Lys Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys |    |    |    |
| 65  | 70 | 75 | 80 |
| Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg |    |    |    |
| 85  | 90 | 95 |    |

Ser Pro

&lt;210&gt; 258

&lt;211&gt; 530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

```

gaattcggca cgagggctgg aggctgagat gcaggagtc gccatccagc tgcacaagcg 60
ctgcgaggag gtagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgcgt 120
ggtgagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180
gagacgtggg ccctgccccg gatatgtgcc ctgcgtcctgg accagctgcg agcctgtcaa 240
gtctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300
gccgtcccccc cagctgactc caagggctgg caagcgtccc tgcaggccat gagcctcccc 360
gagctctcggt gggccctgga ggaccgtgtc cgtgagatgg ggcaaggact gtgcttagtg 420
acccagagcc tggagaagct gcaggtgtcg aacggaaaga agtggcggga gacctagcct 480
gcggggccgaa tctgacgttg ggtgatttgtt ccaccctgaa gctgtgtgcc 530

```

&lt;210&gt; 259

&lt;211&gt; 349

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

```

gaattcggca cgaggccagt tcagtctgca agcgcctagct cctctcatgg ccggcttacc 60
cacccgccttg ccaatgccccca ggggcaaaacc tcataccacc acttccagaa cactgatcat 120
gacaaccaaac aatcaggtac gtggctctt ggcacccttc ccgcgtgggg tccctggaa 180
cagcatccgaa gctgtgatataat gcactagagg agattgtatgg tcctttgaat tagaagagta 240
acttttttagt tattttggcca ttgggtgtttt gttcttagaa atcctctt ttttgggtg 300
ttgaggtcccccc ccatgtatag tttcagcagc gaggacactg tggttcttg 349

```

&lt;210&gt; 260

&lt;211&gt; 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

```

gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggcgaacgtc 60
tgtgttaactt ggaggaggggc agcccgggca gcggcaccta caccggccac ggctacatct 120
tttcgtcgct tgccggctgt ctgtatgaa gcaaggagaa tggcgcgtt ccagtgggtgt 180
ctgttagtggaa agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgt 240
aggtctctag catcaattca cgctttgcca aagtacacat cctgtatgtg gggtccatgc 300
ctcttaagaa ctctttcga ggaactatcc gcaaggaaga tgtcccgagca actaaaaaag 360
acaagggttga aatttataag agtttccggcc caggtgacat tgtcttgcc aaagtgtatct 420
ccttaggtga tgcacagtcc aactacctgc taaccaccgc cgagaacgag ctgggagtgg 480
tggtagccca cagtgagtca ggtatccag 509

```

&lt;210&gt; 261

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| gaattcgcca  | cgaggtgcac  | gttgtgtgag  | gatccgggg  | ccgccccgtc | gctcggggcc  | 60  |
| cggccatggcc | gtcaccatca  | cgctcaaaac  | gctgcagcag | cagaccttca | agatccgcac  | 120 |
| ggagcctgac  | gagacgggtga | agggtctaaa  | ggagaagata | gaagctgaga | agggtcgta   | 180 |
| tgcctttccc  | gtggctggac  | agaaaactcat | ctatgccggc | aagatcttga | gtgacgatgt  | 240 |
| ccctatcagg  | gactatcgca  | tcgatgagaa  | gaactttgtg | gtcgcatgg  | tgaccaagac  | 300 |
| caaaggccgc  | cagggtacct  | cagcacccccc | agaggcctca | cccacagctg | ccccagagtc  | 360 |
| ctctacatcc  | ttccccgctg  | cccccacctc  | aggcatgtcc | catcccccac | ctgccccccag | 420 |
| agaggacaag  | agccccatca  | aggaatccgc  | ccccacgacq | tccccagagt | ctgtgtcagg  | 480 |
| ctcttgttcc  | ctcttcaggt  | aacaacccggg |            |            |             | 510 |

<210> 262  
<211> 432  
<212> DNA  
<213> Homo sapiens

```

<400> 262
gacatgtaat tcttattttat ttttcaccct caacaaggaa gaaaggtctc tccctcaatt 60
ctgctttcc aatacttgag gataggcacc cctaaccctc cttcctccag ggaggcctca 120
gcattcagtgt ctgtggacgt agtctctgaa gagtgcttca gctgatgggg aaggagaaaac 180
tcaagacaga gatcctctta gggatggcgt cactttcctg ccaactttct cgttgcctct 240
ccttgaagc agaagaagtg ccagccctca gcttccgtca gatttgggc tccttagggcc 300
ttgtacaagt ccatggccct ctggttccag tccaggacgg ccagggcgaa ttgggagacag 360
cccttatcca aggccacccctc agccacccctt ttgatttttt tggaaccaat cccttgaccc 420
cgatattccq qc

```

<210> 263  
<211> 614  
<212> DNA  
<213> *Homo sapiens*

<210> 264  
<211> 336  
<212> DNA  
<213> *Homo sapiens*

```
<400> 264
gaattcggtca cgaggggcac aacagagccg ctcccccttc ctcgccccgc accggggacg 60
gagagcgccc gccgggtgcac ttccggcgcac acctcgcaat catttcgtcg gcttgcgcgc 120
ccttgttagac agccggggcc ttcgtgagaa cgggtgcagggc ctggggtagt ctctgtctg 180
gacagagaag agaaaaatgc aggacactgg ctcaagatgtg ctttgcatt ggtttggctt 240
tggctaccca qcaactqgttq cttctqgttq qaataatttqc tattqaaaag caaqcaaqcq 300
```

tgccgtccct ggctgcaggg ctgctcttt ggaagt

336

&lt;210&gt; 265

&lt;211&gt; 487

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 265

```

gaattcggca cgaggtgact gtggaaact cggaaacaag ctcacatctt cctgtggaa 60
accttctagg aacaggatga gtctgcagt gactgcagtt gccaccttcc tctatgcgga 120
ggttttgtt gtgttgcattc tctgcatttcc cttcatttct cctaaaagat ggcagaagat 180
tttcaagtcc cggctgtgg agttgttagt gtcctatggc aacaccttct ttgtggttct 240
cattgtcatc ttgtgtctgt tggtcatcga tgccgtgcgc gaaattcgga agtatgatga 300
tgtgacggaa aaggtgaacc tccagaacaa tccccgggcc atggagcact tccacatgaa 360
gttccatcgat gcccagagga atctctacat tgctggctt tcctgtgc tgccttcct 420
gtttagacgc ctggtgactc tcatttcgca gcaggccacg ctgctggcct ccaatgaagc 480
ctttaaa 487

```

&lt;210&gt; 266

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

```

gaattcggca cgaggccgtg acctgcta gc tgagcagcgc ttcccgccgc gcgtgctgcc 60
ctcgacttg gacctgtgt tgcacatgaa caacgcgcgc tacctgcgcg agggcactt 120
tgcgccgcgtc ggcacactga cccgcgtgcgg ggtgcgtcggt ggcgtgaggg agttgcgggc 180
gcacacgggtg ctggccgcct cgtgcgcgcgc ccaccgcgc tcgctgcgcc tgcgtggagcc 240
cttcgaggtg cgcacccgcgc tgctgggcgtt ggacgaccgc gcgttctacc tggaggcgcgc 300
cttgcgtcagc ctgcgggacg gtttcgtgtt cgcgtgtgc gcgttccgc agcacctgtt 360
ggcacctca cccgagcgcgc tcgtgcagca cctgtgcacaa cgcgttgcgcgc 418

```

&lt;210&gt; 267

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(418)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 267

```

gaattcggca cgaggctggc tcccacccgt gagttggctc aacagatga ggaagagacc 60
atcaagttt ggaaaccgct aggtatccgc actgtggctg tcattgggtt catctccaga 120
gaagaccagg gcttcaggct ggcgcattt tttttttttt tgatgttcc cctgggggtt 180
tgatgttgcgtt gctggaaaaac cccgcgcgcgc tgctgtaccc gctgtacca tttttttttt 240
gttggggcgtt ataggatgtat tgacatgggc tttttttttt atgtccggaa gatccctggag 300
cacatgcctt gtcagcaacc agaagccaa acacggatga agtttgatgtt cccctggaa 360
aaatgttttgg ccaacttttgcgtt gatcggtttt acatgttttgcgtt cccctggaa 418

```

&lt;210&gt; 268

&lt;211&gt; 266

&lt;212&gt; DNA

<213> Homo sapiens

<400> 268

|              |              |              |             |               |            |     |
|--------------|--------------|--------------|-------------|---------------|------------|-----|
| gaattcggca   | cgagggcttc   | tcactgagtg   | cctacttttta | tgtcctgcct    | gtggtgagca | 60  |
| caaatagttga  | gcacatcaat   | ccccattttgc  | tagacgaaga  | gacagagggttgc | agtgacttgc | 120 |
| ccaaagacac   | agggccagtg   | aggagttgttgc | caggttgcctt | ctggcataa     | aataataaac | 180 |
| attgaaatttgc | atgtcgatttcc | cctatggact   | cagtataga   | tctcatcagt    | tgaaggaaga | 240 |
| gagatgcctt   | ttcctattca   | accttt       |             |               |            | 266 |

<210> 269

<211> 235

<212> DNA

<213> Homo sapiens

<400> 269

|            |             |              |             |             |            |     |
|------------|-------------|--------------|-------------|-------------|------------|-----|
| gaattcggca | cgagggctcc  | tgcagcctt    | tcgctggac   | tgcgcgacac  | cgcggggcga | 60  |
| ccgggtgcc  | gctgtgtgcc  | aggccgggttgc | ctggcacgg   | tcccgcgagt  | gcctataag  | 120 |
| gactgccagg | caataatgaa  | gttcttttgc   | ctgaaggatg  | cgaaggaaaga | tgactgtggc | 180 |
| caggatccgt | atatacaggga | attaggatttgc | tatggacttgc | aagccacttgc | gatcc      | 235 |

<210> 270

<211> 386

<212> DNA

<213> Homo sapiens

<400> 270

|               |              |            |              |               |               |     |
|---------------|--------------|------------|--------------|---------------|---------------|-----|
| gaattcggca    | cgagggttcc   | tcgcgggccc | ccgggtgcttgc | gtcaccgggg    | caggcaaagg    | 60  |
| tatagggcgc    | ggcacggtcc   | aggcgcttgc | cgcgacgggc   | gcgcgggtgg    | tggctgttag    | 120 |
| ccggactca     | gcggatcttgc  | acagccttgc | ccgcgagtg    | ccggggatag    | aaccctgttg    | 180 |
| cgtggaccttgc  | gtgtactggg   | aggccaccga | gcggcgccttgc | gggcagcgttgc  | gcgcgggtgg    | 240 |
| acctgttgttgc  | gaacaacgccc  | cgctgtcgcc | ctgctgcagc   | ccttccttgc    | gttacccaag    | 300 |
| gaggccttttgc  | acagatccttgc | ttaggtgaac | ctgcgtgcgg   | catccagtgttgc | cacagattgttgc | 360 |
| ggcagggggttgc | taatacccg    | gagtttgc   |              |               |               | 386 |

<210> 271

<211> 406

<212> DNA

<213> Homo sapiens

<400> 271

|             |               |              |             |             |             |     |
|-------------|---------------|--------------|-------------|-------------|-------------|-----|
| gaattcggca  | cgaggggcttgc  | ctggctggctt  | aagtcccttcc | cgctccggc   | tctcgccctca | 60  |
| ctaggagcgg  | ctctcggtgc    | agcgggacac   | ggcgaagcgg  | cctgcgc     | cgagcgcgc   | 120 |
| gacactgtccc | ggaaggggacc   | gccacccttgc  | cccccttgc   | tgcgcacttgc | tgtttccatgc | 180 |
| cgccctccgc  | gcgcgcacga    | tgcgcgc      | caccagccac  | agcgggagcgc | gcagcaagtc  | 240 |
| gtccggaccc  | ccacccgcgttgc | cggttcccttgc | cgggagttgc  | gcggccgcgg  | gagccggggc  | 300 |
| cgccgcgcgc  | gtttctatgttgc | ccccgcaccc   | ggcaccggcg  | ctgtccagac  | cgaggccatgc | 360 |
| aacatgttgc  | tgggggttatgc  | cgacaagaaa   | cttcggaaacc | tggaga      |             | 406 |

<210> 272

<211> 365

<212> DNA

<213> Homo sapiens

<400> 272

gaattcggca cgaggctcg ctcactagga gcggctctcg gtgcagcggg acagggcgaa 60  
 gcggcctcgcccacccggcgcgacact gccccgaagg gaccgccacc cttgccccct 120  
 cagctgtccca ctcgttattt ccagcggcct cccgcgcgc acgatgcctt cggccaccag 180  
 ccacagcggg agcggcagca agtcgtccgg acccccacccg cctccgggat 240  
 tgaggcggccgcgggagccg gggccgcgcgcggcttcta gcaccccgca accggcaccg 300  
 gcgctgtcca gaccgaggcc atgaagcaga ttctcgggat gatcgacaag aaacttcgga 360  
 acctg 365

&lt;210&gt; 273

&lt;211&gt; 376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 273

gaattcggca cgaggctttg gccactcaga gccccgggc cgcggctcg tcacgcctga 60  
 aggccggctcg tgccggcggc cgctcttagtc tccgcctccg ctcagggccgg tcctccggg 120  
 cttctcaatg gtttcccggt ggcctctcaa tggtttccca ggcggccctt ggcggcgc 180  
 caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgccgc 240  
 ggggaaatag gctcgaggggc ggggagcgt gacaattgtt aggcggagac agtgcaggga 300  
 agagagaccc tataaaggat caggactggc gggaggtatt taactgaaag gaatatctgc 360  
 ttcaactgttg caacca 376

&lt;210&gt; 274

&lt;211&gt; 385

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

gaattcggca cgaggcttgg gtccgtcgct gcttcggtgt ccctgtcggg cttcccgac 60  
 gcggcctagc gggaaaatgaaatgttctt gaatataacc gggtaaccga agatgagaac 120  
 gatgagccca ttgaaatacc atcggaaagac gatgggacgg tgctgtctc cacggttaca 180  
 gcccagtttc cagggcggtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240  
 ggtgtccggc tggtagaagg aattctgtcat gcccagatg ctggctgggg aaatctgggt 300  
 tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360  
 gcagtgaaatgg tgaaaagagc agtcc 385

&lt;210&gt; 275

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(395)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 275

gaattcggca cgagggggag cggagagcgg accccagaga gcccctgagca gccccaccgc 60  
 cggccggccggc ctagttacca tcacaccccg ggaggagccg cagctgcccgc agccggccccc 120  
 agtaccatc accgcaacca tgagcagcga ggcccgaccc cagcagccgc cccgcgc 180  
 ccccgccgc cccgcctca ggcggccgcga caccaagccgc ggcactacgg gcagcggcgc 240  
 aaggagcgggt ggccggggcg gcctcacatt cggccggggcc ttggccggcg ggacaaagaa 300  
 agggcattcg caacgaaggg ttttgggaaa caagtaaaat gggttcaatt gtaaggaaac 360  
 cggattttgg ttttnattca accagggaaa ttgac 395

<210> 276  
<211> 282  
<212> DNA  
<213> Homo sapiens

<400> 276  
gaattcggca cgaggcgagg ggtggtcctg gctggcattt cctgagccgg cagtatgaa 60  
gtggggagct tgcccttgac aggtggggc tggctgggc cttaatgtga aaagacagtg 120  
gcaggcgact ggtagtagagc gagcccagca gccctaaaag gctgcctca tggccatcta 180  
gcccccagttc agggcagcat ccatagccca caagccagcg tgggtgggc ggggtggc 240  
ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

<210> 277  
<211> 615  
<212> DNA  
<213> Homo sapiens

<400> 277  
gaattcggca cgaggccggt cggcctggc aacctgcgtt gaagatgccg gaaaaactcc 60  
gtagtgcacgc tggtttgaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120  
aaaccggagga gaaagagaaaa aaagagaagc caaatctga taagactgaa gagatagcag 180  
aagaggaaga aactgtttc cccaaagctt aacaagttaa aaagaaagca gagccttctg 240  
aagttgacat gaattctcctt aaatccaaaa aggcaaaaaa gaaagagag ccattctaaa 300  
atgacatttc tcctaaaacc aaaagtttgaa gaaagaaaaa ggagccatt gaaaagaaag 360  
tggtttcttc taaaacccaa aaagtgacaa aaaatgagga gccttcttag gaagaaatag 420  
atgctcttaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480  
aaagccccaa actgaagaat ggatttcctc atcctgaacc ggactgtaac cccagtgaag 540  
ctgccagtga agaaagtaac agttagatag agcaggaaat cctgtggAAC aaaaagaagg 600  
cgctttctctt atttt 615

<210> 278  
<211> 316  
<212> DNA  
<213> Homo sapiens

<400> 278  
gaattcggca cgaggagaaaa gggaaaaaaag gcgtaaagac agacatgaag caagtgggtt 60  
tgcaaggaga ccagatccag attctgtatga agatgaagat tatgagcgag agaggaggaa 120  
aagaagtatg ggcggagctg cattgcctt acccacttct ctggtagaga aagacaaaga 180  
gttacccca gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240  
cagccctttc ttccccagt gtaccgaagg aaccaagaac agacccgaga atcttccacc 300  
cgaccctta gcaaac 316

<210> 279  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(393)  
<223> n = A,T,C or G

&lt;400&gt; 279

gaattcggca cgagggtgaa accaacttat tgggctaat cccatttgg cacaggatac 60  
 tgtacgtatc ttcccttcca gagatttgat atcacccaga caccgcacgc atacataaac 120  
 gtgttaccag gtttccccca gtacaccacg atatatcacac ccttggccag cctttctcct 180  
 gaatatcagc taccaaagatc agtaccatgt gtgcgtctt ttgttagccaa tgacagagca 240  
 gaaaaaaaaatg ctggctgcct attttnggg gcattcattt taaaatgct tgagaaatgg 300  
 ttggctgggt cacccagaat tggcatttctt gaaaaccaca agaatccctt tggaaaggggg 360  
 ctcttttttg gggaaaataa tcttggtaaa aag 393

&lt;210&gt; 280

&lt;211&gt; 454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

gaattcggca cgaggcagca atgcggtaga tatgacgtaa acaaattata attaagctag 60  
 tggatactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120  
 ttttcatga tgtctaactc tactgaattt attcaatgg gataacagaa agatgattat 180  
 atatgattaa attacccatca gtatttagcag atgcattttt aaatacttgc ttgttcttc 240  
 tgcaattcca catagaatta aggcaatagt ttaaaaagaaa atttaaaaag taactttct 300  
 agcattttaa tgttagacctg tgaattctaa cacatttgca gtgttagccat cctaattgact 360  
 aaccagactt gaacaaaatc caacttgcaaa aacatgtca atataaatac caatcaccaa 420  
 taataggtat tctcactttt aaaaacctgt gtct 454

&lt;210&gt; 281

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

gaattcggca cgagggtgcgc tcttcgttgc ccagttccg ctcagtggc gcgtctccgc 60  
 ccccccaccca ccagttccgc tgcattctcg gccgggctct aggcgcctat gctcccccgc 120  
 ggaggaagcg taaggctgag gccgcgggtgg tcgcgttagc cgagaagcga gagaagctgg 180  
 cgaacggcgg ggagggatg gaggaggcga ccgttgttat cgagcattgc actagctgac 240  
 ggtctatgg ggcacacgcc gcccgcctga gccaggcgct gcgcctggag gccccagagc 300  
 ttccagtaaa ggtgaaccccg acgaagccccc ggagggcag ctgcggatgt acgctgctgc 360  
 gcccggacgg cagcagtgcg gagctctgga ctgggattaa gaagggggccc ccacgcaaac 420  
 tcaaattccc tgagcctcaa gaggtgggtgg aagagttgaa gaagtacctg tcgttagggag 480  
 atttgggtat aagccctcat gctgagctt gtgtccctgg tcatgttttga acattaatga 540  
 tggAACATGG ccaaacttca gtcatgtatcc tgaagccatg gtttcttccc tgccagaaat 600  
 gaaggttcat tat 613

&lt;210&gt; 282

&lt;211&gt; 313

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

gaattcggca cgaggcgaga acgggcacgg ggagcagcag cctcaaccgc cggcgacgc 60  
 gcaagcaacagc ccccaacagc agcgcggggc cgccaaaggag gccgcggggg agagcagcgg 120  
 ccccacctcg ctgttcgcgg tgcgggtggc gcccggggg gcgaggcagg gccagcagca 180  
 ggcgggaggt aagaagaagg cggaaaggcgg cggaggcggc ggtcgccccc gggctccggc 240  
 ggcgggggac ggcaaaacag aacagaaagg cggagataaa aagaggggtg taaaagacc 300  
 accacaagat cat 313

<210> 283  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 283  
gaattcggca cgaggcctgg cggggagac gagttgcattg tgggttca gctggcgata 60  
gccccggggaa cggaggccggc gggccctgtg cgaccgcctg gtttgtaa atggctgctg 120  
acatttctga atccagcggg gctgactgca aaggagaccc aaggaacagt gccaagttag 180  
atgccgattt cccacttcga gtccttatt gtggagtctg ttcattacca acagagttact 240  
gtgaatataat gcctgatgtt gctaaatgta gacaatgtt agagaagaat ttccaaatg 300  
aatttgc当地 acttactgta gaaaattcac ccaaacaaga agctggaaatt agtggggc 360  
aaggaacagc agggaaagaa gaggagaaga aaaaacagaa gagaggtgga aggggtcaaa 420  
taaaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt cccagagcaa 480  
agaagaaata tggacaaga gtatgtggcc ttgcaacttt tggaaattgat cttaaagaag 540  
cacaaggatt ttttgc 557

<210> 284  
<211> 627  
<212> DNA  
<213> Homo sapiens

<400> 284  
gaattcggca cgaggctcac taggagcggc ttcggtgca gcgggacagg gcaagcggc 60  
ctgcgcccac ggagcgcgcg acactgcccga aagggaccg ccacccttc cccctcagct 120  
gcccactcgt gatcccgac ggcctccggc cgccacatg gccctcgcc accagccaca 180  
gcgggagcgg cagcaagtgc tccggaccgc caccggcgtc gggttctcc gggagtgagg 240  
cggccgcggg agccggggcc gccgcggcgg ctctcagca ccccgcaacc ggcaccggcg 300  
ctgtccagac cgaggccatg aagcagatc tcgggtgat cgacaagaaa cttcggaaacc 360  
tggagaagaa aaaggtaag ctgtatgatt accaggaacg aatgaacaaa gggaaaggc 420  
ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttggagt 480  
ttgcaaaaaga attacagagg agtttcatgg cactaagtca agatatttag aaaacaataa 540  
agaagacagc acgtcgggag cagttatga aaaaagaact gaacagaaac gttaaaaaac 600  
ttgtacttgc actacagtat tggttgg 627

<210> 285  
<211> 474  
<212> DNA  
<213> Homo sapiens

<400> 285  
gaattcggca cgaggcgag aacgacccccc ggaccgacca aagccgcgc gccgctgcat 60  
cccggttcca gcacctacgt cccgtgcgc tgcgcgcgc caccatggcc aagagaaagg 120  
ctgaaggggaa tgctaaaggaa gataaagcaa aggtgaagga cgaaccacag agaagatccg 180  
cgaggttgtc tgctaaacct gtcctccaa agccagagcc caagcctaaa aaggccctg 240  
caaagaagg agagaaggta cccaaaggaa aaaaggaaaa agctgtatgc ggcaaggagg 300  
ggaataaccc tgcagaaaat ggagatgca aaacagacca ggcacagaaa gctgaagggt 360  
ctggagatgc caagtgaaat gtgtgcattt ttgataactg tggacttctg gtgactgtac 420  
agtttgaat actatttttt atcaagttt ataaaaatgc agaattttgg tttt 474

<210> 286  
<211> 576  
<212> DNA

<213> Homo sapiens

<400> 286

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgagggaaat | ctgtgaagt  | cactactgga | ccaaacaacg | ctggagctca | 60  |
| aagttagttct | tcatgtggga | cttctggcct | tccagtttct | gcacagacag | ccttggcaga | 120 |
| acaacacgcca | aaaagcatga | aaagcccagc | ttctccagag | cctggtttct | gtgctactct | 180 |
| ttgccctatg  | gtagaaattc | cacctaaaga | tataatggca | gaattggagt | cagaggatat | 240 |
| cttgatccct  | gaagaatctg | taattcagga | ggaatttgca | gaagaggtag | agactagtat | 300 |
| ctgtgaatgc  | caggatgaaa | atcataagac | aatacctgaa | ttttctgagg | aggctgaaag | 360 |
| tctaaccat   | tctcatgaag | aaccccaa   | agcacctcct | gaagataact | tggaatcctg | 420 |
| tgttatgatg  | aatgatgttt | tagaaactt  | gcctcatatt | gaagttaaaa | tagaaggaa  | 480 |
| gtcagaatca  | ccccaggaag | aatgacagt  | tgttatcgat | cagttagaag | tctgtgactc | 540 |
| tcttatttcct | tccacttcat | ctatgactca | tgtca      |            |            | 576 |

<210> 287

<211> 514

<212> DNA

<213> Homo sapiens

<400> 287

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagggcagag | aggtttgc   | aagagcgcag | gctgagaata | tggagagact | 60  |
| atgtggctcc | cacagctaat  | ttggacaaa  | aggacaagca | gttttgtcc  | aagggtatgc | 120 |
| agtttctgaa | tgctgatgcc  | attgttgta  | agctgaactc | aggcgattac | aagacgattc | 180 |
| acctgtccag | catccgacca  | ccgaggctgg | agggggagaa | cacccaggat | aagaacaaga | 240 |
| aactgcgtcc | cctgtatgac  | attccttaca | tgtttgaggc | ccggaaattt | cttcgaaaaa | 300 |
| agcttattgg | gaagaaggtc  | aatgtgacgg | tggactacat | tagaccagcc | agcccagcca | 360 |
| cagagacagt | gcctgcctt   | tcaagcgta  | cctgtgccac | tgtcaccatt | ggaggaataa | 420 |
| acattgctga | ggctttgtc   | agcaaaggc  | tagcacagt  | gatcagatac | cggcaggatg | 480 |
| atgaccagag | atcatcacac  | tacgatgaac | tgt        |            |            | 514 |

<210> 288

<211> 456

<212> DNA

<213> Homo sapiens

<400> 288

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagggggcg  | ggcaggcg   | caggccggca | ggcgggtgcg | cgaggggctg | 60  |
| gtgccccgca | gcaggtgggc  | ggggtgcgt  | tggccggcgc | ggctggggcg | ggggctgccc | 120 |
| gtgcgcgtcg | ggccgtgcgc  | ggcggccgtg | cgggcacgcc | atggacttca | acatgaagaa | 180 |
| gttggcgtcg | gacgcgggca  | tcttcttca  | ccggggcgtg | cagttcacgg | aggagaaatt | 240 |
| tggccaggct | gagaagactg  | agcttgcgtc | ccactttgaa | aaccttctgg | cccgggcaga | 300 |
| cagcaccaag | aactggacag  | agaagatctt | gaggcagaca | gaggtgctgc | tgcagccaa  | 360 |
| coccagtgc  | cgagttggagg | agttcctgt  | tgagaagctg | gacaggaagg | tcccctcaag | 420 |
| ggtcaccaac | ggggagctgc  | tggctcagta | catgc      |            |            | 456 |

<210> 289

<211> 262

<212> DNA

<213> Homo sapiens

<400> 289

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagggcagaa | gcccctagct | cctctgagcc | tcatggggcc | agaggaagca | 60  |
| gtagttcg   | ggcaagaaa   | tgctacaagc | tggagaatga | gaagctgttc | gaagagttcc | 120 |
| ttgaactttg | taagatgcag  | acagcagacc | accctgaggt | ggtcccat   | ctctataacc | 180 |

ggcagcaacg tgccactct ctgttttgg cctcgccgga gttctgcaac atccctcta 240  
 gggtcctgtc tcggggccgg ac 262

<210> 290

<211> 205

<212> DNA

<213> Homo sapiens

<400> 290

gaattcggca cgaggattta tgggccactg cacatgcccc ctgcagccct gggatcagct 60  
 ggaagctgcc tgtcatctcc tgcccaatcc ccagaaaccc tgattcaggt ctgcaggctc 120  
 ctgcgggctc accaggctgc tggctccggt accatgtaaa cctaggaagg taaaggagca 180  
 ggcaacctcc tcgtggcctg tgtgt 205

<210> 291

<211> 483

<212> DNA

<213> Homo sapiens

<400> 291

gaattcggca cgaggcctgg ccgggaccgt gtggccgtg aggatgagga cggctggag 60  
 acgcgagggg accgcaaggc ccggaaagccc ctggtgaga agaagcggcg cgccggatc 120  
 aacgagagcc tgcaggagct gcggctgtcg ctggcgccg ccgaggtgca ggccaagctg 180  
 gagaacgccc aagtgttgg gctgacgggt cggcggtcc agggtgtgtgc gcggggccgg 240  
 ggcgcgagc gcgagcagct gcaggcgaa gcgagcgaac gcttcgtc cggctacatc 300  
 catgtcatgc acgaggtgca cacgttcgtg tccacgtgcc aggccatcga cgctaccgtt 360  
 ctggcgagct cctgaaccat ctgctcgagt ccatgccgtc gcgtgaggc agcaacttca 420  
 ggatctgtcg 483  
 gggacgccc tgcggggcca cctaaatccc ctggacggaa tggctggctg 480  
 cgg

<210> 292

<211> 562

<212> DNA

<213> Homo sapiens

<400> 292

gaattcggca cgagggcgct gcgggttaga gccgggttgc gggagacccc aggttcggtt 60  
 gggattccca gccagaacgg agcttaagcc gggcaggcga gcgaatgacg gagtagcgg 120  
 ctgcacggcg gcgtgtcgct ctgttgagga cgctgtccc cgcgtccca ggccgcccc 180  
 aggttgggg ttttcaagg ataatcgcc cccggggccg aacagcgggg gcacacgggg 240  
 cgctgccgaa gtgcaaggcc acggccagag ctcgagcccg acgcgtgtc tggagtgcgt 300  
 gtttggcgcc gtttgggtc ggggtcttag gcttgggcgc tgcctggcc gagcggagat 360  
 cgggggttgc ctcccgtccc cgctcaggac cctgacgtgg ctgaagcggc cccggggagca 420  
 tgagcggcag cgcgtggacg tcaagggtgt gatgtggc aaggagtacg tgggcaagac 480  
 tagcctggtg gagcgtacg tgcacgaccg ctttctggtg gggcattatc agaacaccat 540  
 cggggccgccc ttctggcca ag 562

<210> 293

<211> 645

<212> DNA

<213> Homo sapiens

<400> 293

gaattcggca cgaggctgag agagagcaca gcctggtggg ttctgggtc tacggcctag 60

ggccgggga agtttgcgcc gcccgcacca gtgtcgat cccgagccgg gctccagccc 120  
 cgaggaccag gggtcgggog ggcctgccta cggaaaccccg cggggccagca gcagtcgtct 180  
 cgcgtcctcc tgcttggaaa agtgtttaag cttctaaaat gtcatctatc aagcacctgg 240  
 tttatgcagt tattcgttc ttacggAAC aaagtcaaat ggacacttac acctcgatg 300  
 aacaagaaag ttggaaagtt gcaattcaatg gcttggagac agtttttaag atcagcccaag 360  
 aagatacaca ccttagcagtt tcacagcctt tgacagaaat gtttaccagt tccttctgt 420  
 agaatgacgt tctccccctt tcaaactcag tgcctgaaga tgtggggaaaa gctgaccaat 480  
 taaaagatga aggcaataac cacatgaaag aagaaaatta tgctgctgca gtggattgtt 540  
 acacacagggc aatagaattt gatcccaata atgcagttt ctattgcaac aggctgctg 600  
 ctcagagcaa attaggtcac tacacagatg cgataaagga ttgt 645

&lt;210&gt; 294

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

ctgagcgtct ctgcttagcc gcggtcatga gccggcacag ccggctgcag aggagggttc 60  
 tgagcctgta ccgcgatctg ctgcgcgcgg ggcgtggaa gccgggcgcc gaggcgcgag 120  
 tgcggcaga gttccggcag catgcggccg tgccgcggc cgacgtgtc cgcatcgagt 180  
 acctgtaccc cgcggggcgg cggcagctgc agctgctacg ctgcggccac gccaccgcca 240  
 tgggcgcctt cgtacccccg cggggcccgaa ccggggagcc tggcggcgtg ggttcccagc 300  
 ctgacgacgg cgacagtcca aggaaccccc acgacagcac gggggcaccg gagacccgccc 360  
 cgcacggacg gtgacaggcg aagagccgaa ctcgctcgat ggcgtggtg agccaggagg 420  
 ctgcctgac tgcattgggg gactggggaa cccgcctaag gtgagaggtc ttaagagact 480  
 agcttacgca attggggatg tcagagactc ctccctggcg a 521

&lt;210&gt; 295

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

gaattcggca cgaggagaac atgcagtcta ggaacggca tgcgcataac ctcaggatat 60  
 aaataatgtc gaagcagagt tacgttttt ttgttgtt tttttttttt tttttttttt 120  
 taggttccg tgcgtttcta ttgagctgtc cagtccccgg cttagaagac cagaaaaagg 180  
 agtcacaggt cgtatgtgg aggttgagc cgcgcaccc tggcgcggct cgcctcgctg 240  
 cgggttgtgg tggcgggtgaa cattgcagcg cggctggagg gggtccttag acaaggtgca 300  
 agacaaacac aagaggcat gtggggtcaa actcctactg cctgcctgtat tttctgcac 360  
 aggacaaattt cacca 375

&lt;210&gt; 296

&lt;211&gt; 628

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

gaattcggca cgaggaaaat gttcgatat tcacttgacc cggagaaccc cacgaaatca 60  
 tgcaaataaa gaggtccaa tcttcgttt cactttaaga acactcgta aactgctcg 120  
 gcccataagg gtatgcatac acgaaaagcc acgaagtatc taaaagatgt cactttacag 180  
 aacacgtgtc taccattccg acgttacaat ggtggagttt gcagggtgtc gcaggccaag 240  
 caatggggct ggacacaagg tgggtggccc aaaaagatgt ctgaattttt gctgcacatg 300  
 cttaaaaacg cagagagtaa tgctgaactt aagggttag atgttagatc tctggcatt 360  
 gagcatatcc aagtgaacaa agcacctaag atgcgcgcggc ggacctacag agctcatggt 420

cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480  
 cagattgttc ctaaacccaga agaggaggtt gcccagaaga aaaagatatc ccagaagaaaa 540  
 ctgaagaaac caaaacttat ggcacggag taaattctca taaaaataaa tgtaattaaa 600  
 agaaaaaaa aaaaaaaaaa aactcgag 628

<210> 297

<211> 645

<212> DNA

<213> Homo sapiens

<400> 297

gaattcggca cgaggagaaa acgaagcagc gttggaaaat ggaattaaaa atgagggaaa 60  
 cacagaacca ggtgctgaaat cttctgagaa cgctgatgtat cccaacaaag atacaagtga 120  
 aaacgcagat ggtcaaagtg atgagaacaa ggacgactat acaatcccg atgagtatag 180  
 aattggacca tatcagccca atgttcctgt tggtatagac tatgtgatac ctaaaacagg 240  
 gtttactgt aagctgtgtt cactcttta tacaatgaa gaagttgcaa agaatactca 300  
 ttgcagcagc cttcctcatt atcagaaattt aaagaaattt ctgaaataat tggcagaaga 360  
 acgcagacag aagaaggaaa cttaaagatgt gcaaggagat ttaatgattt caaagaaaaat 420  
 aatggttctt tgttttaat gttaaccttt tttaaataca atactgatac ttagaagaaa 480  
 actattgtac tctttgttt tagtgagaa ataatagatg tctgttcatg tggtaagtgt 540  
 tatagcaaaa aaaatacaca tatggttaag ttaatgaata gttttgttt tatcagaatg 600  
 gcaacagaca gaagtacttt gtagagattt acttcctaag ctctt 645

<210> 298

<211> 625

<212> DNA

<213> Homo sapiens

<400> 298

gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60  
 cgttcccccc tgccccctt ctccccccac cgccgccgccc gcctccgca ggcgcgtttcc 120  
 accgagggaaa aggaatcgta tcgtatgtcc gctatccaga acctccactc tttcgacccc 180  
 tttgctgatg caagtaaggg tgatgacctg cttcctgctg gcactgagga ttatatccat 240  
 ataagaattc aacagagaaa cggcaggaag acccttacta ctgtccaagg gatcgctgat 300  
 gattacgata aaaagaaaact agtgaaggcg ttaagaaaa agtttgcctg caatggtaact 360  
 gtaattgagc atccggaata tggagaagta attcagctac agggtgacca acgcaagaac 420  
 atatgccagt tcctcgtaga gattggactg gctaaggacg atcagctgaa ggttcatggg 480  
 ttttaagtgc ttgtggctca ctgaagctt agtgaggatt tccttgcattt gagtagaatt 540  
 tccttctct tccttgcac aggtttaaa acctcacagc ttgtataatg taaccattt 600  
 gggtcccgctt ttaacttggc cttagt 625

<210> 299

<211> 545

<212> DNA

<213> Homo sapiens

<400> 299

gaattcggca cgagggagcc caggaggtca aggctacagt gagccgtgat catgccactg 60  
 cactccagcc tgggtgacag agcgagaccc tggatctttaa caacaaaacc catgagccgc 120  
 agcccccccaag tcctgatgg tggtaaagaa tcctcaagat caaaccaccc cagtgctgag 180  
 agcttggccct gattcttaggg ctggggctgg agaaactgtt agagatgtatg ccgatagcca 240  
 gtgtgatccc cctgccttga tggtaaggg cagagtgcag actggaaaccc tccctccccc 300  
 aaagattcag acctgtgggg ctgagtgggc tcataatgttc cccaagtctt gagaggctgg 360  
 tggatctggctt cagcctccag cttctcaggat tctgtatgcag tcagctgatgt tccctgccta 420

ttcttgcaga cactaggagg aagggtggg gtttgcgtgg aacagcaccc agcccccctcc 480  
 ccacccagat tcacagagca cactccccgg gggatactt taatccggag gccgtacgc 540  
 ctgct 545

<210> 300

<211> 605

<212> DNA

<213> Homo sapiens

<400> 300

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 ctttcgttgt cagccaggaa cgagaacaca gccacgctcc caccggctg ccaacgatcc 180  
 ctcggcggcg atgtcgcccg cccgtgcccgg aggctgcgg gccacctacc accggctcct 240  
 cgataaaagtg gagctgatgc tgccccgagaa attgaggccg ttgtacaacc atccagcagg 300  
 tccccagaaca gttttttctt gggctccaat tatgaaatgg gggttgggtgt gtgtggatt 360  
 ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgtg ttttcatggc 420  
 tacagggttt atttgtcaa gataactact tgtaattatt caaaaaaaaatt ggagtctgtt 480  
 tgctgttaat ttcttgcggg gggcagcagg agcctctcag cttttcgta tttggagata 540  
 taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaatcta 600  
 gatgt 605

<210> 301

<211> 364

<212> DNA

<213> Homo sapiens

<400> 301

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 tccagaagaa gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattcccta 120  
 cttcatggat gtgaaatgcc caggatgcta taaaatcacc acggcttta gccatgcaca 180  
 aacggtagtt ttgtgtgtt gctgctccac tgcctctgc cagcctacag gaggaaaagc 240  
 aaggcttaca gaaggatgtt cttcaggag gaagcagcac taaaagcact ctgagtcaag 300  
 atgagtgaaa aaccatctca ataaacacat tttggataaaa aaaaaaaaaaaa aaaaaaaaaact 360  
 cgag 364

<210> 302

<211> 545

<212> DNA

<213> Homo sapiens

<400> 302

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 cggcaaccatcg agcagcgagg cccggacca gcggccggcc gcccggcccc 180  
 cggccctcagc gccgcccaca ccaagccgg cactacggc agcggccgag ggagcggtgg 240  
 cccggggcggc ctcacatcg cggccctgc cggcggggac aagaaggta tcgcaacgaa 300  
 gttttggaa acagtaaaat gttcaatgt aaggaacggg tatggttca tcaacaggaa 360  
 tgacaccaag gaagatgtat ttgtacacca gactgccata aagaagaata accccaggaa 420  
 gtacccctcgc agttaggag atggagagac tggtagttt gatgttgg aaggagaaaa 480  
 gggtgcggag gcagcaaattt ttacaggtcc tgggtgggttt ccagttcaag gcagtaata 540  
 tgtag 545

<210> 303

<211> 506  
<212> DNA  
<213> Homo sapiens

<400> 303

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aaaaagcaat cagcaattgg acaggaaaag aatgcattg aagcagattt ccagcaacaa 120  
gtgctttggg ggattgcaga aagttttga acatgacagt gttgaactaa actgcaaaat 180  
gaaatttgcgt gtctacttac caccaaaggc agaaacagga aagtgccttg cactgtattt 240  
gctctcagggt ttaacttgca cagagcaaaa ttttatatca aaatctgggtt atcatcagtc 300  
tgcttcagaa catggtcttgc ttgtcattgc tccagatacc agccctcggt gctgcaatat 360  
taaaggtaaa gatgagagct gggactttgg cactgggtgtt ggattttatgtt tgatgccac 420  
tgaagatcct tggaaaacca actacagaat gtactcttgc gtcacagagg agctccccca 480  
actcataaat gccaattttc cagtgg 506

<210> 304

<211> 485

<212> DNA

<213> Homo sapiens

<400> 304

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gtgcccggaca gctgagaccg gcgcccaccc gtcctgagca tagctctgtt ggcagtgcgg 120  
gcatagcctg catagtgtcc tggcgctggg agttcccggtt ggacagagcc agagggcagt 180  
ggcgctccct gtcagagctg gatcaggccc cccatcgagg agggagggca gacggaggcc 240  
cgagagcctc cccaggcctc ttctgtggaa ggccccagta ccactctgtt gagggtctcag 300  
ctctggcatg gctgccccgg atgtggccga ggggcttca ccctgtgtcc ttaggagggg 360  
gtggccttga ggcaagagcc gtgcctcaact gaccccccagg ggcctcatcc tccccatgga 420  
atgggctgttga tgcctgtcccc caacttggcc cgcagcaggc cagaccccccc taccccccggc 480  
cagag 485

<210> 305

<211> 615

<212> DNA

<213> Homo sapiens

<400> 305

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cttgcgttgc gcccagtggc agtccctgcag gaccaactc tgagactgaa tgctacttac 180  
tatattacca agcaaatttcc tccacccttg gcaagaatct tctcaattt tggattgtt 240  
gtcttcagggtt ggtatcatgtt attaccaagg atccataaaatg ctaccagctc ctcgcgaagt 300  
gaaccttgcgtt ggcggaaagg cactatttca caatattttt ctacattaca ctgtcctgtt 360  
tgtgtatgacc taactcagca tggcatctgtt agtaatgtt ggagccaaacc tcagcatgtt 420  
gcagtcatcc tcaaccaaga aatccgggag ttggaaacgtt aacaggagca acttgtaaag 480  
atatgcagaactgtacagg ttgttgcgtt cgcacatcc catgtgtttc tctgaactgc 540  
ccagttactttt tcaaacttcc ccgagtaaat agagaattgtt ccaaggcacc atatctcgg 600  
cagttattaa accag 615

<210> 306

<211> 504

<212> DNA

<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(504)  
<223> n = A,T,C or G

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cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa acaaaaacaa aaaaacaaaa 120  
ccagaatcg gtaaaacagc tatgtgatta aaatatttta attcttcagc aattaccgg 180  
tttctaaat tgaatcatgc atctatttt aattctaatt atttgtaaa agaagacaaa 240  
attatgaatc ttaagtattt gctccatctt tttctctgta atggtgagaa ggctgccc 300  
aattcatctc cacatggagc caagtttaat gttcttagt cacatttgt acttctgtca 360  
tgcttatttc aaactccctg agtgtatgg aagaaatcaa acattgcctc agtggatca 420  
agagaacttt ggtggatgtt tcttcagaat catgaagttc ttttgcaga taaatattt 480  
gatattattt tccttttaa tata 504

&lt;210&gt; 307

<211> 449  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 307

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ggaaagacag ggcgacactgg aagtccaact acttccttaa gatcatccaa ctattggatg 120  
attatccgaa atgtttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180  
tccgcatgtc ctttcgcggg aaggctgtgg tgctgtggg caagaacacc atgatgcgc 240  
aggccatccg agggcacctg gaaaacaacc cagctctgga gaaactgtg cctcatatcc 300  
ggggaaatgt gggcttgtg ttcaccaagg aggacctcac tgagatcagg gacatgttgc 360  
tggcaataaa ggtgcacagct gtcggcgtgc tgggccatt gccccatgtg aagtcaactgt 420  
gccagccca g aacactggtc tcggggcccg 449

&lt;210&gt; 308

<211> 524  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 308

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gcaccccaagg tttcoacagc ttagtgttag ccctacaact ccatcctcac cacccacacc 120  
accctggagc actctgattt tgccttcatt gtagacaatg aggccatcta tgacatctgt 180  
cgtagaaacc tcgatatacg ggcggccaaacc tacactaacc ttaaccgcct tattagccag 240  
attgtgcctt ccatcaactgc ttcctgaga tttgatggag ccctgaatgt tgacactgaca 300  
gaattccaga ccaacctggt gcccattcccc cgcattccact tccctctggc cacatatgcc 360  
cctgtcatct ctgctgagaa agcctaccat gaacagctt ctgttagcaga gatcaccaat 420  
gtttgctttg agccagccaa ccagatgggtt aatgtgacc ctcggccatgg taaatacatgt 480  
gtttgctgcc tggtttaccg tggtgacgtg gttcccaaag atgt 524

&lt;210&gt; 309

<211> 524  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 309

gaattcggca cgagggttcc tcactgagtg cctactttta tgtcctgcct gtggtgagca 60

caaatgttga gcacatcaat ccccatttg tagacgaaga gacagagtt agtgacttgc 120  
 ccaaagacac agggccagtg aggagttgtg cagggttgcc ctggcattaa aataataaac 180  
 attgaaattc agtcgattcc cctatggact cagtataga tctcatca tgaaggaaga 240  
 gagatgcctt ttccttattca gcctttttgc aatccttcca tcttagaggag atgtatctta 300  
 taatatcctc aaaggcactc tgttgtatac agcagccttgc atgaggtccc atatagctca 360  
 ttggaagcag agctagtctt gaaactgaa aatgttggac cagagtctgc ccattccctt 420  
 agctctgggt ccagctgtgg tctgggggtt aatggagtc gaccttgcc cacacaggc 480  
 ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat 524

&lt;210&gt; 310

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 310

gaattcggca cgaggggaga ctacaaggat aggcccagga gtaatggagt ccaaagagaa 60  
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 agttgctaattt aaagggggagc cttggccctt ccctttggat gctggtaat actgtgtgcc 180  
 tagagggaaat cgtaggcggt tccgcgttag gcagccccatc ctgcagtata gatgggatata 240  
 gatgcatagg cttggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300  
 ggaggagggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360  
 ggcagtccgc actgacccccc ctcaccatga ccacatcatgtat gatggggatata ttatgcctcg 420  
 aatcctgtatg gtttccttaaa agtttattacg gaaacagacc cctgcttgc aatttacatg 480  
 ttcatgtatgtt gcccttggtaa taaaccttta cctgtcactt gttt 524

&lt;210&gt; 311

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

gaattcggca cgaggccctcg tgccgtgccc cccgaggtat gcggggtcac tcgctgctcg 60  
 atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgcctt cccttaggagc 120  
 cccgggtctt cactggccga ggtgcccacc cccgacgtt ctgggagttg tagttttctt 180  
 ctttcaggtt cattccttggc tggccagtgc ccaagactgg cgagactacg attcccaagac 240  
 gccaagcga gtcgcggc acgtggccgc aaggacgtg ggccgggtgg cggggggccgg 300  
 caggtgctcc gcagccgtct gtgccaccca gagccggccgg gccgctaggt ccccccggagac 360  
 cctgctatgg tgcgtgcggg cggccgtggg gtcatctcc ccgcgtccgg ttggatatac 420  
 ttggggacc tgaagaagat gaaacaaagcgc cagctctatt accaggtttt aaacttcgccc 480  
 atgatcgtgtt ctctgcact catgatatgg aaaggcttga tcg 523

&lt;210&gt; 312

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 312

gaattcggca cgaggggtgaa ggtgtgtgc agcttttgc tcactcgacg cctgggcgt 60  
 gcttgcataaa gagcccgacgca cgcgggtctg tcattatgtc gcgttacggg cggtaggg 120  
 gagaaaccaa ggtgtatgtt ggttaacctgg gaaactggcgc tggcaaaaggag gagtttagaaa 180  
 gggctttagt ttattatgtt ctttaagaa ctgtatggat tgcgagaaat cttccaggat 240  
 ttgcctttgtt ggaattcgaa gatccttagag atgcagaaga tgcgtacga ggactggatg 300  
 gaaaggtgat ttgtggctcc cgagtggaggg ttgaactatc gacaggcatg cctcggagat 360  
 cacgttttga tagaccacatc gcccggacgtc ctttgcatttcc aaatgtataga tgctatgtatg 420

gtggcgaaaa gggacattat gcttatgatt gtcatcgta cagccggcga agaagaagca 480  
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<210> 313

<211> 523

<212> DNA

<213> Homo sapiens

<400> 313

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 cccaatcatg tcgatgagtc caaaggcacac gactccgttc tcagtgtctg acatcttgag 180  
 tccccctggag gaaagctaca agaaagtggg catggagggc ggcggcctcg gggctccgct 240  
 ggcggcgtac aggcaaggcc aggccggcacc gccaacagcg gccatgcagc agcacgcgt 300  
 ggggcaccac ggcgcgtca cccgcgccta ccacatgacg gccggggggg tgcccccagct 360  
 ctccgcaactcc gccgtggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420  
 gccgttaccag gacaccatga ggaacagcgc ctctggcccc ggatggtagc ggcacaaccc 480  
 agaccgcgc ttccccgcca gtttttttc ttcaaggatca ggc 523

<210> 314

<211> 525

<212> DNA

<213> Homo sapiens

<400> 314

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 aaagaaaaac taataagggg ctggctcatt acctcaagga gtataaagag gccatatacg 180  
 atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aaggtgcagg 240  
 atgagaagag aaaaagcaaa cagaatttgg gggcggtttt gtggatgcaa agaaatttac 300  
 aggacccctt ctaccctaga gttcaaggg aattcagggg tggctgcagg gccccacgaa 360  
 gggacattga agacattct tatgtgttgt gtccctggca ggcatttacc aggcatgtg 420  
 cttaacgtt cggtaataact ttactttagg catccctctt gttgctagca gcctttgac 480  
 ctatctgcaa tgcagtgttc tcagtaggaa atgttcatct gttac 525

<210> 315

<211> 358

<212> DNA

<213> Homo sapiens

<400> 315

gaattcggca cgaggggggtg gtggagcgt gggcgccag gctccctggc tggccggttt 60  
 gggcgctctgg gccgtgaagg tgggacctcc tggatgtttc cctatccagc 120  
 cccccccgt tcgttagcatg tccccccagaa ctcggggagc gcaggcagga caggcttaga 180  
 gaagacgcgcg tccccagcgc ttgggcccac gacgtcccac cccgctccctc tggatgtgg 240  
 gaaccgcgcg gccgagccac tgggagaagc aggcacagac cttccaggc cttccggcc 300  
 tggacccgag gaggatgagc tggcttttc ccctgaccaa gagcgctcc tccctccg 358

<210> 316

<211> 420

<212> DNA

<213> Homo sapiens

<400> 316

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 ttttagggac agtacccgga aggagggaa caagagttc tcttcgcag ccccttccc 180  
 cacggccacc cccagtctcc agggaccctt gcctgcctcc taggctggaa gccatggtcc 240  
 cgaagtgtag ggcaagggtg ctcaggacc ttttgttctt cagccctccct cagccccccag 300  
 gatctgggtt aggtggccgt ctcctgtctc ctcatggaa gatgtctcag agccttcatg 360  
 acctcccttc cccaaacctaa tgccaaactg gacttggag ctgcacaaag tcagcaggaa 420

&lt;210&gt; 317

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

gaattcggca cgaggcggtc cggagggtcg tttaaaggccc cccgcgcgtt gccgccccct 60  
 cggccgcaca tgctgtatc cgtgcgcgtc ctgcgtggcc tcctcggcct gcccgtcgcc 120  
 gagcctgccc tctacttcaa ggagcagttt ctggacggag acgggtggac ttcccgctgg 180  
 atcgaatcca aacacaagtc agattttgc aaattcggtt tcagttccgg caagttctac 240  
 ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgcgtt ttatgtctg 300  
 tcggccagtt tcgaggcttt cagcaacaaa ggccagacgc tggtggtgca gttcacggtg 360  
 aaacatgagc agaacatcga ctgtggggc ggctatgtga agctgtttcc taatagttt 420  
 gaccagacag acatgcacgg agactcagaa tacaacatca tggttggtcc cgacatctgt 480  
 ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

&lt;210&gt; 318

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(401)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 318

aacaccaagg tggacaagag agttgagtcc aaatatggtc ccccatgccc atcatgccc 60  
 gcacctgagt tcctgggggg accatcagtc ttccctgttcc ccccaaaacc caaggacact 120  
 ctcatgtatc cccggacccc tgaggtcactc tgcgtgggtgg tggacgtgag ccaggaagac 180  
 cccgaggtcc agttcaactg gtacgtggat ggcgtggagg tgcataatgc caagacaaag 240  
 cccgccccggagg agcaggtaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac 300  
 caggactggc tgaacggcaa ggagtacaag tgcaagggtct ccaacaaagg cctccctcc 360  
 tccatcgaga aaaccatntn caaagccaaa gggcagcccc g 401

&lt;210&gt; 319

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

accgtgtact attagccatg gtcaacccca ccgttctt cgcattgcc gtcgacggcg 60  
 agcccttggg cccgtctcc ttgagctgt ttgcagacaa ggtccaaag acagcagaaa 120  
 atttcgtgc tctgagcact ggagagaaaag gatttggta taagggttcc tgcttcaca 180  
 gaattattcc aggtttatg tgtcagggtg gtgacttcac acgcataat ggcactggtg 240

gcaagtccat ctatggggag aaatttgaag atgagaactt catcctaaag catacgggtc 300  
 ctgcacatcttgc tccatggcaa atgctggacc caacacaat gttcccagt tttcatctg 360  
 cactgccaag actgagtgg tggatggcaa gcatgtggg t 401

<210> 320

<211> 471

<212> DNA

<213> Homo sapiens

<400> 320

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 aatctcttgc aagcaaat attttataaa tcttttgaa ccagtgtttt agatggtagt 120  
 ggctgtggca gtgacttttta attagccatc ctgaaccat catttaaaat atttattttt 180  
 gctttcagaa attttgaat aagtaaggaa aaaaacccaa ttatattacag atacacataa 240  
 ccaacccaaa ataaaagcaa aataactaaat taggcacaca gaaagactaa aagtaaattc 300  
 actaggaaag acactcctca aagatagaat gtaaattttt tgaatccaga gtgctcaaac 360  
 cagaataacg cttgtcccttta taccctaaag gacttgccaa gaaagataaa aagtattttt 420  
 ttatcccaga aagaatgcaa gggtcatttcat ttcatgtggc ttataacacc a 471

<210> 321

<211> 471

<212> DNA

<213> Homo sapiens

<400> 321

attactcaac agatttggac acaacggaaa gacaacagtt gatatttcta cttgggtgt 60  
 gcagtttgc actttttgtt cagagcaact ggacggggcc ccctgttgac ttacaccctc 120  
 aggactttttt gtcatctgtt ttgttccagc aattcagtga gtttaaagga ctggatgcat 180  
 ttgttcttag cctgtcact ctatgtggt aatcaatcta cagcctgacc tcgaagccta 240  
 tactactgtt attagcacgc attatcctag tgaatgtaa acataaaactg acagctattc 300  
 agagcttgcc atgggtggact ttgagatgtg tgaatattca tcagcatttgc ttggaggaac 360  
 gtcacacttct gcttttact cttgccgaaa actgtattga tcaagtgtatg aaactacaga 420  
 atctgtttgtt agatgattca ggtcgatatttca attccatctg g 471

<210> 322

<211> 601

<212> DNA

<213> Homo sapiens

<400> 322

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 ggccagtcttccatatggg gatggggaaat cttggcattt gtccttttc tgataacctt 180  
 tggaccctttt gtaatattttt atttgacattt ttatatctc tgctttgtgg gtgggggttt 240  
 agtggttact ctcctgtttt gaaaaacaaa ctcagagaag tacctagaac agtgtgaaca 300  
 ctcatttctt cctccaaacat cacctgggtt tcctaagtgc tttagaaagaa tggaaacggga 360  
 agccaggact attaagattt atagaagattt gacgggtgcc aatataattt atgaacctt 420  
 ccagcaagttt atccagttt ctttgaggaa ttatgtccag tattgttattt atacactaag 480  
 cgatgtgaa tctttcttc ttgaaattttt gcaacttccaaacgcac tcattcattt 540  
 tgctactagg tcaaaaagaaa tagactggca accttattttt actacacgca ttgttagatga 600  
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<210> 323

<211> 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 323

gatgaggtag cagaggctca acgggcagag tttagccctg cccagtttc tggtcctaag 60  
 aagatcaacc tgaaccactt gttgaatttc acttttgaac cccgtggcca gacgggtcac 120  
 tttaaggca gtggacatgg tagctgggg aagaggaaca agtggggaca taagccttt 180  
 aacaaggaac tcttttaca gcccaactgc caatttggg tttctgaaga ccaagactac 240  
 acagctcatt ttgctgatcc tgatacatta gttaactggg actttgtgga acaagtgcgc 300  
 attttagcc atgaagtgcc atcttgccca atatgcctt atccacccat tgcagccaag 360  
 ataaccgcgt gtggacacat cttctgtgg gcatgcattc tgcactatct ttcactgagt 420  
 gagaagacgt ggagtaaatg tccccatctgt tacagttctg tgcataagaa ggatctcaag 480  
 agtgttggtg ccacagagtc acatcagttt gttttgggtt ataccattac gatgcagctg 540  
 atgaagaagg agaaagggtt ggtggggct ttgccaaat ccaaattggat gaatgttagac 600  
 c 601

&lt;210&gt; 324

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

catcttcttc ctttcgccgg gtcctccgtt gttctggcac gagccaggcg tactgacagg 60  
 tggaccagcg gactgggtgg gatggcgacg ctctctctga ccgtgaattc aggagaccct 120  
 ccgcttaggag ctttgcgtggc agtagaacac gtgaaagacg atgtcagcat ttccgttgaa 180  
 gaagggaaag agaatattct tcatgtttct gaaaatgtga tattcacaga tgtgaattct 240  
 atacttcgct acttggctag agttgcactt acagctgggt tatatggct taatctgtg 300  
 gaacatactg agattgtatca cttgggttgg gttcagtgtt aaaaaattat cttcatgtga 360  
 ttcccttact tctacaatta atgaactcaa tcattgcctg tctctgagaa catacttagt 420  
 tggaaactcc ttgagtttag cagatttatg tttttggcc a 461

&lt;210&gt; 325

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 325

tcacttttga accccgtggc cagacgggtc actttgaagg cagttggacat ggttagctggg 60  
 gaaagaggaa caagtgggg aataacgcctt ttaacaagga acttttttta cagggcaact 120  
 gccaattttgt ggtgtctgaa gaccaagact acacagctca ttttgcgtat cctgatacat 180  
 tagtttaactg ggactttgtg gaacaaagtgc gcatttggtag ccatgaagtgc ccatcttgcc 240  
 caatatgcct ctatccacat actgcagccca agataaccccg ttgtggacac atcttctgt 300  
 gggcatgcac cctgcactat ctttgcactga gtgagaagac gtggagtaaa tgcccacatct 360  
 gttacagttc tgcataag aaggatctca agagtgtgt tgccacagag tcacatcagt 420  
 atgttgggg tgataccatt acgtgcacgc tgcataagaa g 461

&lt;210&gt; 326

&lt;211&gt; 451

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(451)

<223> n = A, T, C or G

<400> 326

|                       |            |             |            |            |            |     |
|-----------------------|------------|-------------|------------|------------|------------|-----|
| ctgtggaggc cagttctgga | gctattgcag | cctcggttgc  | ccggccgggg | accggagccg | 60         |     |
| aaaagttatc            | gtcagaatgt | cgggcaaaga  | ccgaattgaa | atctttccct | cgcgaatggc | 120 |
| acagaccatc            | atgaangctc | gtttaaaggg  | agcacagaca | ggtcgaaacc | tcctgaagaa | 180 |
| aaaatctgat            | gccttaactc | tgcatttcg   | acagatccta | aagaagataa | tagagactaa | 240 |
| aatgttgatg            | ggcgaagtga | tgagagaagc  | tgcctttca  | ctagctgaag | ccaagttcac | 300 |
| agcaggtgac            | ttcagcacta | cagtttatcca | aaatgtcaat | aaagcgcaag | tgaagattcg | 360 |
| agcgaagaaa            | gataatgtag | caggtgttac  | tttgcagta  | tttgaacatt | accatgaagg | 420 |
| aactgacagt            | tatgaactga | ctggtttagc  | c          |            |            | 451 |

<210> 327

<211> 601

<212> DNA

<213> Homo sapiens

<400> 327

|                        |             |             |            |             |             |     |
|------------------------|-------------|-------------|------------|-------------|-------------|-----|
| gagggggaggc cagcgaagcc | gagtaaaacc  | gccgcccggg  | agaagactga | aggagcagtt  | 60          |     |
| gccgcccgttgc           | gcggccggccc | gagcagtttt  | cgctgctgct | acggctgttgc | 120         |     |
| aggcttaggaa            | ggacctca    | tccccgggtt  | gtaataatgt | taactgaggc  | cagtctatcc  | 180 |
| atatggggat             | ggggaaaggct | tggcattgtc  | ctttttctga | taacctttgg  | accctttgt   | 240 |
| atattttatt             | tgacatttta  | tatcctctgc  | tttgcgggtt | ggggtttagt  | ggttactctc  | 300 |
| ctgtttggaa             | aaacaaactc  | agagaagttac | ctagaacagt | gtgaacactc  | atttcttcct  | 360 |
| ccaacatcac             | ctggggttcc  | taagtgctt   | gaagaaatga | aacgggaagc  | caggactatt  | 420 |
| aagattgata             | gaagattgac  | gggtgccaat  | ataattgtat | aacctctcca  | gcaagttatc  | 480 |
| cagttttcct             | tgagggatta  | tgtccagttat | tgttattata | cactaagcga  | tgtatgaatct | 540 |
| tttcttcttg             | aaattaggca  | gactcttcaa  | aacgcactca | ttcagtttgc  | tacttaggtca | 600 |
| a                      |             |             |            |             |             | 601 |

<210> 328

<211> 601

<212> DNA

<213> Homo sapiens

<400> 328

|                        |             |            |             |             |              |     |
|------------------------|-------------|------------|-------------|-------------|--------------|-----|
| ccggaaatgat cacaaagaca | cacaaagttag | accttggct  | cccagagaag  | aaaaagaaga  | 60           |     |
| agaaaagtgg             | caaagaacca  | gagactcgat | actcagtttt  | aaacaatgtat | gattacttttgc | 120 |
| ctgatgtttc             | tccttaaga   | gctacatccc | cctctaagag  | tgtggccat   | ggcaggcac    | 180 |
| ctgagatgcc             | tctagtgaag  | aaaaagaaga | agaaaaagaa  | gggtgtcagc  | accctttgcg   | 240 |
| aggagcatgt             | agaacctgag  | accacgctgc | ctgctagacg  | gacagagaag  | tcacccagcc   | 300 |
| tcaggaagca             | ggtgtttggc  | cacttggagt | tcctcagtgg  | ggaaaaagaaa | aataagaagt   | 360 |
| cacccctctagc           | catgtcccat  | gcctctgggg | tgaaaacctc  | cccagacct   | agacagggt    | 420 |
| aggaggaaac             | cagagttggc  | aagaagctca | aaaaacacaa  | gaaggaaaaaa | aagggggccc   | 480 |
| aggaccccac             | agcctctcg   | gtccaggacc | cttgcgttctg | tgaggccagg  | gaggccaggg   | 540 |
| atgttgggg              | cacttgc     | gtggggaa   | aggatgagga  | acaggcagcc  | ttggggcaga   | 600 |
| a                      |             |            |             |             |              | 601 |

<210> 329

<211> 501

<212> DNA

<213> Homo sapiens

<400> 329

```

agcagcttgcgtccaaaggctgatcttgtaaccccgctggatcagaagaaa60
accaggctgaagggtatcgctaaaagagttattaataataccgaggcctctatgc120
ttggaaatgtaatcagtgccttggagatgacaaaaagggtggcttgcctacaga180
gattccaatgtgactcgactgctcaagatctcttaggatgtatagccatactcttatg240
atagcctgtgtgactccatctaggaaatcttgcattaaataccctcgctat300
gctgacagacaagaaaaatcaagaacaaacctattgttataattgatccccagacagct360
gaacttaatcatctaaagcaacaggtacaaacgctacaagtcctgttgcacaggccat420
ggaggtaccctgtcctggatctataactgtgaaaccatcagaatctacaatcccgtatg480
gagaagaatcagtccctggtaa501

```

<210> 330  
<211> 451  
<212> DNA  
<213> *Homo sapiens*

<210> 331  
<211> 331  
<212> DNA  
<213> *Homo sapiens*

```
<400> 331
cgttggtcct gtgcggcac ttagccaaga tgcctgagga aaccaggacc caagaccaac 60
cgatggagga ggaggagggtt gagacgttcg ctttcaggc agaaaattgcc cagttgtatgt 120
cattgatcat caataactttc tactcqaaaca aqagatctt tctqagagag ctcatttcaa 180
attcatcaga tgcattggac aaaatcccgt atgaaagctt ggacagaatc caataaaatta 240
aaacttcttg gggaaaagaag cttgcattat taacccttta taccgaacca aacccaaagaa 300
tccqaaactt ctcaacttat ttggggggga a 331
```

<210> 332  
<211> 401  
<212> DNA  
<213> *Homo sapiens*

<400> 332  
tccttcttga tcctgaactg ggttaggtgc cgctgttgct gctcgtgttgc aatctagaac 60  
cgtagccaga catgggactg gaggacgagc aaaagatgt taccgaatcc ggagatcttg 120  
aggaggagga agaggaagaa gaggaattag tggatcccct aacaacagtg agagagcaat 180  
gcgagcagtt ggagaaaatgt gtaaaggccc gggagcggct agagctctgt gatgagcgtg 240  
tatcctctcg atcacataca gaagaggatt gcacggagaa gctctttgac ttcttgcatg 300  
cgagggacca ttgcgtggcc cacaactct ttaacaactt gaaataaatg tgtggactta 360  
attcacccca gtcttcatca tctggcattc agaatatttc c 401

<210> 333  
<211> 331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

gatccctgca gaggcctcat ccccccacag cgagccagtc ctagagaagg atgacctcat 60  
 ggacatggat gcctctcagc agaatttatt tgacaacaag tttgtatgaca tctttggcag 120  
 ttcattcagc agtgatccct tcaatttcaa cagtc当地 ggtgtgaaca aggatgagaa 180  
 ggaccactt attgagcgac tatacagaga gatcgttggaa ttgaaggcac agctagaaaa 240  
 catgaagact gagagccagc gggttgtgtgc gcagctgaag gcccacgtca gcgagctgg 300  
 agcagatctg gccgagcagc agcacctgcg g 331

&lt;210&gt; 334

&lt;211&gt; 551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

agcgggactg gctgggtcggtt ctgggctgtt ggtgcgagga gcccggggc tttgtctcggtt 60  
 ggccaagggg acagcgcgtt ggtggccgag gatgtctcggtt ggcggtagctt ccggcgcccc 120  
 tagctgtgtt ctgtctcggtt gtgcctcaca cagccgaggc gggctcggtt cacagtctgtt 180  
 gctccgcgcg cgcgcgggc ggcgttccag gtgttgcacag cgcgagagag cgcggccctt 240  
 aggagcaagg cgaatgtatg acaacatgtt cacaatgtt tacataaagg aagacaagttt 300  
 ggagaagctt acacaggatg aaatttattt taagacaaag caagtaattt aggggtgtttt 360  
 agctttaaagg aatgagcaca attccattttt acaaagggtt ctggagacac tgaagtgtttt 420  
 gaagaaaatgat gatgaaagta atttgggttggaa ggagaatca aacatgtatcc cggaagtcac 480  
 tggagatgtt ggagctcggtt ctgagtgttggg cacaggttat gatggctttt tcaaatcacc 540  
 tgaatgtttt t 551

&lt;210&gt; 335

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 335

caggcggccg agcgggactg gctgggtcggtt ctgggctgtt ggtgcgagga gcccggggc 60  
 tttgtctcggtt ggccaagggg acagcgcgtt ggtggccgag gatgtctcggtt ggcggtagctt 120  
 ccggcgcccc tagctgtgtt ctgtctcggtt gtgcctcaca cagccgaggc gggctcggtt 180  
 cacagtctgtt gctccgcgcg cgcgcgggc ggcgttccag gtgttgcacag cgcgagagag 240  
 cgcggccctt aggagcaagg cgaatgtatg acaacatgtt cacaatgtt tacataaagg 300  
 aagacaagttt ggagaagctt acacaggatg aaatttattt taagacaaag caagtaattt 360  
 aggggtgtttt agctttaaagg aatgagcaca attccattttt acaaagggtt ctggagacac 420  
 tgaagtgtttt gaagaaaatgat gatgaaagta atttgggttggaa ggagaatca aacatgtatcc 480  
 ggaagtcactt ggagatgtttt g 501

&lt;210&gt; 336

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

cctcggcggc ggcggcggtt cttacagcctt gagaagagcg tttgtccggg gagcggcggtt 60  
 ggccatcgag acccacccaa ggcgcgtccc cttcgccctt ccagcgctcc caagccgcag 120  
 cggccgcgcg cttcagcta gttcgctcgcc tttgttgcgtt tccctgttgc cggctcgcc 180  
 atggcggttgg ctttggcggtt gttcgccggc gttcgccggc gttcgccggc cgggttaccag 240

cagttgcaga atgaagaaga gtctggagaa cctgaacagg ctgcaggtga tgctcctcca 300  
 ctttacaga gcatttctgc agagagcgca gcatatttg actacaagga tgagtctggg 360  
 tttccaaagc ccccatctta caatgttagt acaacactgc ccagttatga tgaagcggag 420  
 aggaccaagg ctgaagctac tatcccttg gttcctggaa gagatgagga ttttgtgggt 480  
 cgggatgatt ttgatgtgc tgaccagotg aggataggaa a 521

<210> 337

<211> 521

<212> DNA

<213> Homo sapiens

<400> 337

aaggaggaaa aatacacgga agagaattgc tgtcctggct gagtccagag agataactga 60  
 gggcccaga caaggatcaa gagaacggaa ttggcctcca gaggcagagg ttccaaatgg 120  
 gagtgggctt cctcttagaa agactttctg gaggagaccc ccctactgtg taacagagga 180  
 gactttggg attaagaaaa gcattccagg aagccgacag tgcagcaaa cgtggaggtg 240  
 agatccttca aagtgagtgg tggaggggtt tccagaattt tctgagctg aaggaaaggt 300  
 tggagagcag accctccct ttggaggctt gacttagccc tgagggcacc ctgtagccag 360  
 gttggcaga tgccaatatg gttagagacga agactgagta gggagccac cacagtgcctt 420  
 gtggtctcag gcagggagtg aagaccagag tggagcaggc tagaaacctg ggaaggaagc 480  
 aggttccccca gtataagccc atgatgtgtg aagaatgagc c 521

<210> 338

<211> 581

<212> DNA

<213> Homo sapiens

<400> 338

atactgcttg ctggagatg tcctcgaga ccattctgc tatgacaagg cctggagtt 60  
 gtcccggtac cgcaatgcgtc gtgcgtcagcg ctccaaagcc ctccttcatac ttcgaaacaa 120  
 gagtttcaa gagtgttag agtgcgtcga acgctcggtt aagattaatc ccatgcagct 180  
 cgggggtgtgg tttctctcg gttgtgccta tttgccttg gaagactatc aaggttcagc 240  
 aaaggcatt cagcgctgtg tgactctaga acccgataat gctgaagctt ggaacaattt 300  
 gtcaacttcc tatatccat taaaacaaaa agtaaaagct tttagaactt tacaagaagc 360  
 tctcaagtgt aactatgaac actggcagat ttggaaaac tacatcctca ccagcactga 420  
 cttggggaa tttcagaag cattaaagc ttatcaccgg ctcttgact tacgtgacaa 480  
 atacaaagat gttcagggtcc taaaattct agtcaggcgtt gttattgtt ggttactgt 540  
 tcgaagtggaa gatgttgcctt ctggcctcaa agggaaagctg c 581

<210> 339

<211> 581

<212> DNA

<213> Homo sapiens

<400> 339

aagaagaaga agctcggtt cgtgaagaag cagagagggt ccggcaggaa cgagagaagc 60  
 atttccagag agaagagcaa gagcgcctgg agagaaaaagaa gcaacttgag gagattatga 120  
 aaagaaccag gagaacagaa gctacagata agaaaaaccag tgatcagaga aacggtgata 180  
 tagccaagg agctctcact ggaggaacag aggtgtctgc acttccatgt acaacaaacg 240  
 ctccggaa tggaaagcca gttggcagcc cacatgtgtt tacctcacac cagtcaaaag 300  
 aaaaaaaaaaa gcgtgtatggaa atagctattt gatcaggta caaaaaacaa tttttaaaaa 360  
 taagctaaca tctaaagaaac atcattttgc ctatactgcc tcccccaaaa tcctgtttt 420  
 actcagtgaa cacctaagcc cactcagaaa tggatgttgc tgcattttc tccatcctt 480  
 agcaccttctt tattttgggg ggagctctga agccttgcctt gaagtggag agaaaaggac 540

caggtgtgac agaaggacg atttaagtta ttacaataaa c 581

<210> 340

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(571)

<223> n = A,T,C or G

<400> 340

ggggcaaat tcaagtccctg ttaaccccg ggtttctt gatgtcagta ttggcggtca 60  
 ggaagtggc cgcatgaaga tcgagcttt tgccacgtt gtgcctaaga cggccgagaa 120  
 cttagggca ttctgcaccg gagaatttcag gaaagatggg gttccaatag gatacaaagg 180  
 aagcacctc cacagggtca taaaggatt catgatttcag ggtggagatt ttgttaatgg 240  
 agatggact ggagtcgcca gtatccat gggccattt gcagatgaaa atttaaact 300  
 tagacactca gctccaggcc tgcttccat ggcgaacagt ggtccaagta caaatggctg 360  
 tcagttctt atcacctgt ctaagtgcga ttggctggat gggaaagcatg tgggtttgg 420  
 aaaaatcatc gatggacttc tagtgatgag aaagattgag aatgttccca caggccccaa 480  
 caataagccc aagctaccc tggtgatctc cagtggtggg agatgtagtc cagacaaaga 540  
 ctgaatcagt atacttgctc gacttcaagg n 571

<210> 341

<211> 581

<212> DNA

<213> Homo sapiens

<400> 341

taatgagacc aaagtttgc aggcaggac gagccgtgc taacagagaa agtgttgg 60  
 cctcaatttg gtttagact gtcttgcct atggggaga aaagatctgc cttggaga 120  
 ggtgccaact ttatacatct attaataaaa gaactggcag gcttacagtt cttgccaatg 180  
 aggaaacttg aatgagagaa gccaggctca accttggca acagactgga gcccatcacc 240  
 ctaacttcac cccgcttctc cttacccaaac cgtcaaaggc taggcagcac ccacccagca 300  
 gttccaccc ggctgaagcc tgcacctgtc tcagaccaag ggttagatgg aaatttggca 360  
 tgggaagaga gggctcacct gtgggcagga tagactctat ccaagaagga gaactaaaa 420  
 atgaaaacct atgagacaag gggtgatctc gaagcaggca ggagaaaggg ctggagggag 480  
 aggcactggg gaattttcc tggtaatac tgaagttact agatgttttgc tcttgcaaaa 540  
 ctcaaggaa aactctaaa ctctaattgt tggcctattc t 581

<210> 342

<211> 451

<212> DNA

<213> Homo sapiens

<400> 342

gcagaccaga cttcgctcg actcggtgc ctcgcttcgc ttttcctccg caaccatgtc 60  
 tgacaaaccc gatatggctg agatcgagaa attcgataag tcgaaactga agaagacaga 120  
 gacgcaagag aaaaatccac tgcctccaa agaaacgatt gaacaggaga agcaagcagg 180  
 cgaatcgtaa tgaggcgtgc gcccataa tgcactgtac attccacaag cattgccttc 240  
 ttatccatctc tcttttagct gtttaacttt gtaagatgca aagaggatgg atcaagttt 300  
 aatgactgtg ctgcccctt cacatcaaag aactactgac aacgaagccg cgcctgcctt 360  
 tcccatctgt ctatctatct ggctggcagg gaaggaaaga acttgcattt ttggtaagg 420

aagaagtggg gggtggaaaga aatgggggtg g 451

<210> 343

<211> 601

<212> DNA

<213> Homo sapiens

<400> 343

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| tgacctcatg | gacatggatg  | cctctcagca | gaatttattt  | gacaacaagt  | tttatgcacat | 60  |
| cttggcagt  | tcatttcagca | gtgatccctt | caatttcaac  | agtcaaaatg  | gtgtgaacaa  | 120 |
| ggatgagaag | gaccacttaa  | ttgagcgact | atacagagag  | atcagtggat  | tgaaggcaca  | 180 |
| gctagaaaac | atgaagactg  | agagccagcg | gtttgtctg   | cagctgaagg  | gccacgtcag  | 240 |
| cgagctggaa | gcagatctgg  | ccgagcagca | gcacccgtcg  | cagcaggcgg  | ccgacgactg  | 300 |
| tgaattcctg | cccccagaac  | tggacgagct | caggaggcag  | ccccgggaca  | ccgagaaggc  | 360 |
| tcagcggagc | ctgtctgaga  | tagaaaggaa | agctcaagcc  | aatgaacacgc | gatatacgaa  | 420 |
| gctaaaggag | aagtacagcg  | agctggttca | gaaccacgct  | gacctgtcgc  | ggaagaatgc  | 480 |
| agaggtgacc | aaacaggtgt  | ccatggccag | acaagcccag  | gtagattttg  | aacgagagaa  | 540 |
| aaaagagctg | gagggattcg  | ttggagccgc | tcagtgcaccc | aggccagcg   | ggaagactca  | 600 |
|            |             |            |             |             |             | 601 |

a

<210> 344

<211> 571

<212> DNA

<213> Homo sapiens

<400> 344

|              |            |            |            |            |             |     |
|--------------|------------|------------|------------|------------|-------------|-----|
| gcgaccggg    | gagcgagcac | gtcgctccgc | accgctttc  | ctccagccgc | tgagccgtcc  | 60  |
| cttctcgcca   | tgtcccgag  | caggcaccgc | gccgaggccc | cgccgctgga | gcgcgaggac  | 120 |
| agtggaccc    | tcagttggg  | gaagatgata | acagctaagc | cagggaaaac | accgattcag  | 180 |
| gtattacacg   | aatacggcat | gaagaccaag | aacatcccag | tttatgaatg | tgaaagatct  | 240 |
| gatgtcaaa    | tacacgtgcc | cactttcacc | ttcagagtaa | ccgttggtga | cataacctgc  | 300 |
| acaggtgaag   | gtacaagtaa | gaagctggcg | aaacatagag | ctgcagaggc | tgccataaac  | 360 |
| attttgaaag   | ccaatgcaag | tatttgctt  | gcagttctg  | acccttaat  | gcctgaccct  | 420 |
| tccaaagcaac  | caaagaacca | gcttaatct  | attgttcat  | tacaggaatt | ggcttattcat | 480 |
| catggctgga   | gacttccctg | atataccctt | tcccaggaag | gaggacctgc | tcataagaga  | 540 |
| gaardataacta | caatttgcag | gctagagtca | t          |            |             | 571 |

<210> 345

<211> 551

<212> DNA

<213> Homo sapiens

<400> 345

|            |            |             |             |             |             |     |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gacctggcgc | tttgtgcggc | tccaggcctc  | cgagtggact  | ccagaaagcc  | tgaaaagcta  | 60  |
| tcatggcagc | aaggcccaag | ctccactatc  | ccaaacggaag | aggccggatg  | gagtcgtga   | 120 |
| gatgggtttt | agctgcccgc | ggagtgcag   | ttgatgaaga  | atttctgaa   | acaaaagaac  | 180 |
| agttgtacaa | gttgcaggat | ggttaaccacc | tgctgttcca  | acaagtgcac  | atggttgaaa  | 240 |
| ttgacggat  | gaagtggta  | cagacccgaa  | gcattctcca  | ctacatagca  | gacaaggcaca | 300 |
| atctctttgg | caagaacctc | aaggagagaa  | ccctgtactg  | tggccctct   | cgagtgtgt   | 360 |
| cacttgtcag | tttactgtat | ccttagctga  | tttagaaccct | ctgttagcaca | ccacattac   | 420 |
| tttatgtctt | acatagttag | ttagatcagg  | gaacaaaaac  | ccaagaaggt  | cacgaagacc  | 480 |
| atactatata | tcagtagaga | gagtctgag   | aaaacaaaag  | aataggatt   | cagatattga  | 540 |
|            |            |             |             |             |             | 551 |

<210> 346  
<211> 501  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 346  
tatggaaac tgctttat ttagacctt gggacaaaat taacttttgt cacatattac 60  
ttaaaaaaaaaa atccagttt acatatttct aaatagatag aactaaatga tcagagaatt 120  
tcttctgtaa aaattggcca aattttatca aaaatctaac atacgataca atccaaatta 180  
taaaaaagact acttggatc ataatatccaa ataatgtatga cagttataac tccatctta 240  
caagngtcaa aagtacttgc tctcatgttg ctgggtcca aaagagtata gctaactcag 300  
taacaggca ctaagtaccc aatctttgc caaaattaat ttanatttg actggcagca 360  
gaaaatatcca taatgaacag ctctactata acaaagaata attaaagaat actttcgtg 420  
aacatatac acatataat acattttat aagagaaaa tatgaaggaa atgataaaaat 480  
agctatcaca aacaaaaaga a 501

<210> 347  
<211> 621  
<212> DNA  
<213> Homo sapiens

<400> 347  
gcccgggaga agactgaagg agcagttgcc gccgttggcg gcggcccgag cagtttcgc 60  
tgctgctacg gctgtgcca tgaggcgagg cttagggagga cctcaacttcc cgggggtgt 120  
ataatgttaa ctgaggccag tctatccata tgggatggg gaagccttgg cattgtcctt 180  
tttctgataa cctttggacc ctttgcataa ttttatttga cattttatat cctctgctt 240  
gtgggtgggg gttagtgggt tacttcctt tttggaaaaaa caaactcaga gaagtaccta 300  
gaacagtgtg aacactcatt tcttcctcca acatcacctg gggttcctaa gtgccttagaa 360  
gaaaatgaaac gggaaagccag gactattaaat attgatagaa gattgacggg tgccaatata 420  
attgatgaaac ctctccagca agttatccag ttttccttga gggattatgt ccagtattgg 480  
tattatacac taagcgtatg tgaatcttt cttcttggaa taggcagac tcttcaaaac 540  
gcactcattc agtttgcgtac taggtcaaaa gaaatagact ggcaaccta ttttactacc 600  
cgcattgttag atgactttgg c 621

<210> 348  
<211> 511  
<212> DNA  
<213> Homo sapiens

<400> 348  
cggcgccgg cggcgccggcga tggcgccggc ggaggccggt ggcgacgacg ccgcgtcg 60  
gcggctgagc gcccggcggg cacaggcgct gctgccccac gtggacacgc tgctgttgc 120  
ctgcgacggc gtgtgtggc gcggggagac cggcgccct ggcgcgccc aggccctcg 180  
ggcgctgcga gcccggcga agcgccctggg cttcatcacc aacaacagca gcaagacccg 240  
cgctgcctac gcccggcgtc gggcttgcggc ggccccgggg ggccggcgc 300  
cagcctggag gtcttcggca cggcgactg caccggcgctc tacctgcgcg acgcgtcg 360  
cggcgccccc gcggccaaagg cttacgtgt gggcagccca gcccggccg cgagactgga 420  
gccgtggcg tcgcccagcg gggcggtggg cccgaccact gcaggcgag ggtcccgcc 480  
actggctgca cggccgttgg agccgactgc g 511

<210> 349  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 349  
gctcaggcgctgg ctgcggctgg gtgagcgaac gcgaggcgcc gaggcggcag cgttctca 60  
ggtcgtggcg tcgggtttcc ggagctttgg cggcagctag gggaggatgg cggagtcttc 120  
ggataagctc tatcgactcg agtacgccaa gagcggcgcc gcctcttgc agaaatgcag 180  
cgagagcatc cccaaaggact cgctccggat ggcacatcatg gtgcagtcgc ccatgtttga 240  
tggaaaagtc ccacactggt accacttctc ctgccttctgg aaggtgggcc actccatccg 300  
gcaccctgac gttgagggtgg atgggttctc tgagcttcgg tggatgacc agcagaaaagt 360  
caagaagaca gcggaaagctg gaggagtgac aggcaaaggc cagatgaa ttgttagcaa 420  
ggcagagaag actctgggtg actttgcagc agatgtatgcc aagtccaaca gaagtacgtg 480  
caagggggtg tatggagaag aatagaaaaa gggcagggtg c 521

<210> 350  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 350  
ggcggcgccgc ggcgatggcg gcggcgagg ccggtggcga cgacgcccgc tgcgtgcggc 60  
tgagcgccga gcgggcacag gcgctgtgg ccgacgtgga cacgctgtg ttcgactgcg 120  
acggcggtgt gtggcgccgg gagaccgcg tgcctggcgc gcccggagcc ctgcggcgcc 180  
tgcgagccccg cggcaagcgc ctgggtttca tcaccaacaa cagcagcaag accccgcgtg 240  
cctacgcccga gaagctgcgg cgcctggct tcggcgccccc cgccggggccc ggccgcagcc 300  
tggaggtctt cggcacggcc tactgcaccc cgctctaccc ggcgcagcgc ctggccggcg 360  
cccccgccgc caaggcctac gtgcgtggca gcccagccct ggccgcggag ctggagccgt 420  
ggcgtcgccc agcgtggcg tggggcccg c 451

<210> 351  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 351  
agagagagag agagagagag agagagagag agagagaccc cgtgccaat tcggcacgag 60  
gcctcggtcc ggaaaccttag tgatggacaa gttgtggtt tcataaatta tcgagatgc 120  
aagttaacac gaattctcca gaattccttg ggagaaatg caaagacacg tattatctgc 180  
acaattactc cagtatctt tgatgaaaca cttactgctc tccagttgc cagtactgct 240  
aaatatatga agaatactcc ttatgttaat gaggtatcaa ctgatgaac tctcctgaaa 300  
aggtatagaa aagaataat gtatcttaaa aaacaattag aggaggttc ttttagagacg 360  
cgggctcagg caatggaaaa agaccaattg gcccaacttt ggaagaaaaa gatttgctc 420  
agaaagtaca gaatggagaaa attgaaaaact taacacggat gctggtgacc tcttctccc 480  
tcacgttgc ccaaggaatta aaggctaaaa gaaaacgaag agttacttgg tgccttgcaa 540  
aattaccaaa tgaagaactc aactttttag atcattttat t 581

<210> 352  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 352  
aaaggcgatg aggtggatgg agtggatgaa gtggcgaaga agaaatctaa aaaagaaaaaa 60  
gacaaggata gtaagcttga aaaagcccta aaggctcaga acgacactgat ctggaacatc 120  
aaggacgagc taaagaaaagt gtgttcaact aatgacctga aggagctact catttcaac 180  
aagcagcaag tgccttctgg ggagtccggc atcttgacc gagtagctga tggcatggtg 240  
ttcgggtcccc tccttcctg cgaggaatgc tcgggtcagc tggcttcaa gagcgtgcc 300  
tattactgca ctggggacgt cactgcctgg accaagtgtt tggtaagac acagacaccc 360  
aaccggaaagg agtggtaac cccaaaggaa ttccgagaaa tctcttacct caagaaattg 420  
aagttaaaaa agcaggaccg tatattcccc ccagaaccag c 461

<210> 353  
<211> 491  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(491)  
<223> n = A,T,C or G

<400> 353  
atggcggccgg cggaggccgg tggcgacgac gcccgtcg tgccgtgag cgccgagccg 60  
gcacaggcgc tgctggccga cgtggacacg ctgtgttgc actgcgacgg cgtgtgtgg 120  
cgccgggaga cccgcgtgcc tggcgccccc gaggccctgc gggcgctgag agcccgccgc 180  
aagcgcctgg gcttcatcac caacaacagc agcaagaccc gcgcgtcccta cgccgagaag 240  
ctgcggccgc tgggttcgg cggcccccgcg gggcccgccg ccagcctgga ggtttccggc 300  
acggcctact gcaccgcgtc ctacctgcgc cagcgcctgg cggcgcccc cgcccccaga 360  
gcctacgtgc tggcaaccc agccctggcc gcgganctgg agccgtggc gtcggcagcg 420  
tggcggtggg gcccgaccac tgcaaggcca gggtcccgcc gactggctga cgcccgctg 480  
gaacccgact g 491

<210> 354  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 354  
ggcgtcccg tggctgtcc cggttgtcc tggcggtca cttggccaaat atgcctgagg 60  
aaacccagac ccaagaccaa ccgatggagg aggaggaggt tgagacgttc gccttcagg 120  
cagaatttc ccagtgtatg tcattgtatca tcaatacttt ctactcgaaac aaagagatct 180  
ttctgagaga gctcatatca aattcatcg atgcattggaa caaaatccgg tatgaaagct 240  
tgacagatcc cagtaaatta gactctggaa aagagctgca tattaacctt ataccgaaca 300  
aacaagatcg aactctcaact attgtggata ctggaaattgg aatgaccaag gctgacttga 360  
tcaataacctt tggtactatc gccaagtctg ggaccaaagc g 401

<210> 355  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 355  
tcttcagcgc atcagaagta tccagaatgt tcctgaaagc tcaggggtcg tggaaactgt 60  
tccagcattt caagaaattt cttctatgaa agaacatgc aacaagcttc ttcagaaagt 120  
tcagaaaaat aaagaatttg tgcagactga aatccaagaa agacattctt tcacaaaaga 180

gataattgtt ttgaagaatt tctttcaaca gaccacaact tcattccaaa atatggcatt 240  
 ccaggatcac ccagaaaaagt cagaacaatt tgaggagctt caaagcatcc ttaagaaagg 300  
 gaaactaact tttgagaata ttatggaaaa actgcgaatc aagtattccg aaatgtacac 360  
 catagtcct gcagagattg aatcccaggt ggaagaatgc agaaaagctt tagaagacat 420  
 agatgagaag attagccat gaagtctaa a 451

<210> 356

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(441)

<223> n = A,T,C or G

<400> 356

gtcgcgcaccc cgccggccca tgaacgcctt catggtgtgg gcaaaggacg agcgcaagcg 60  
 gctggctcaag cagaacccgg acctgcacaa cgccgtgctc agcaagatgc tggccaaagc 120  
 gtggaaaggag ctgaacgcgg cggagaagcg gcccttcgtg gaggaagccg aacggctgcg 180  
 cgtgcagcac ttgcgcgacc accccaacta caagtaccgg ccgcgcgcga agaagcaggc 240  
 gcgcaaggcc cgccggctgg agcccggtc tgctcccggg attagcgccc ccgcagccac 300  
 cgccgaccc tccccggcg tctggctcgn tcgcgccttc cgcgagctgc cccgctggc 360  
 gccgagttca cggctggggc tgccaccccg agcgtcgctc tgacggctga cccgggagct 420  
 gctttccac gccgcgcgca a 441

<210> 357

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(451)

<223> n = A,T,C or G

<400> 357

gcggcgccgg aggccgggtgg cgacgacgcc cgctgcgtgc ggctgagcgc cgagcgggca 60  
 caggcgctgc tggccgcacgt ggacacgcgt ctgttcgact ggcacggcgt gctgtggcgc 120  
 ggggagaccc cgctgcctgg cgcccccggag gccctgcggg cgctgcgagc ccgcggcaag 180  
 cgcctggct tcacacccaa caacagcagc aagacccggc ctgcctacgc cgagaagctg 240  
 cggcgcttgg gcttcggcgg ccccgccggg cccggcgcac gcctggaggt ctccggcacg 300  
 gcctactgca cccgcgtcta cctgcgcctag cgcctggcccg ggcgcggccgc gcccaagcct 360  
 acgtgctggg cagcccgagcc ctggccgcgg anctggaagc cgtggcgctc gccagcgtgg 420  
 cgctggggcc cgaaccactt gcaggccgag g 451

<210> 358

<211> 571

<212> DNA

<213> Homo sapiens

<400> 358

gcggcgatgg cggcgccggaa ggccgggtggc gacgacgccc gctgcgtgcg gctgagcgcc 60  
 gagcgccggcac aggcgctgct ggccgcacgtg gacacgcgtc tggtcgactg cgacggcg 120

```

ctgtggcgcg gggagaccgc cgtgcctggc gcgccccgagg ccctgcgggc gctgcgagcc 180
cgccgcagaac gcctgggctt catcaccaac aacagcagca agacccgcgc tgccctacgcc 240
gagaagctgc ggccgcctggg cttcggcggc cccgcggggc ccggcgccag cttggagggtc 300
ttcggcacgg cctactgcac cgcgctctac ctgcgcggcagc gcctggccgg cggcccccgcg 360
ccaaaggcta cgtgctgggc agccccagccc tgccgcggta gctggaggcc gtgggcgtcg 420
ccagcgtggg cgtggggccc gaccactgca gggcgagggt cccggcgact ggctgcacgc 480
ggcgctggag cccgacgtgc gcgcggtggt ggtgggcttt gacccgcact tagctacatg 540
aaqctcacca aqcccttqeq ctacttqaq a 571

```

<210> 359  
<211> 511  
<212> DNA  
<213> *Homo sapiens*

<400> 359  
cgctgctgtt atggccgcct cctttaggtt gatatccgcac atggaaattct agggccgcag 60  
gtgtattttac ggtaactgtc gccactagat tttagcgcct ttggactctc ctgtttcac 120  
tttcttttgt tgactccccgt gtggccctcg tgaggagctg ttttggctgc acgggtgtct 180  
ggggtgatgt ggaccggcga gctggcaatt ctgaggggat tccccactga ggctgagcgg 240  
cagcaatgga aacaggaggg ggtcgctcggt tcagagagtg gatcttcct acaaattgtct 300  
ctggaaaggga actatgaagc catattctt aattcaatga ctcaaaaatat tttaattca 360  
acaacaaccg ctgaagaaaa gattgtatgc tacctggaga agcaggtagt aacattccgt 420  
gattactcaa cagatttggg cacaacggaa agacaacagt tgatattct acttgggtgt 480  
agcagtttgc aactttttgt tcaaaagcaac t 511

<210> 360  
<211> 481  
<212> DNA  
<213> *Homo sapiens*

```

<400> 360
gcgttctcg ggagctgctg ccgttagctgc cggccgcgt accaccgcgt tcgggtgtag 60
aatttggaat ccctgcgcgg cgtaacaat gaagcagagt tcgaacgtgc cgctttccct 120
cagcaagctg tggacgcttg tggaggaaac ccacactaac gagttcatca cctggagcca 180
aatggccaa agtttctgg tcttggatga gcaacgattt gcaaaagaaa ttcttcccaa 240
atatttcaag cacaataata tggcaagctt tgtgaggcaa ctgaatatgt atggttccg 300
taaagttagta catatcgact ctggaaattgt aaagcaagaa agagatggtc ctgtagaatt 360
tcagcatcct tacttcaaac aaggacagga tgacttgtg gagaacatta aaaggaaggt 420
ttcatcttca aaaccagaag aaaataaaat tcgtcaggaa gatttaacaa aaattataag 480
t

```

<210> 361  
<211> 551  
<212> DNA  
<213> *Homo sapiens*

<400> 361  
cgttagggaa gacactgtgg aggccagttc tggagctatt gcagccctcg 60  
ggggaccgcgaa gcccggaaaat tatcgtcaga atgtcggggca aagaccgaat tgaatcttt 120  
ccctcgcgaa tggcacagac catcatgaag gtcgtttaa agggagcaca gacagggtcga 180  
aacctcctga agaaaaaaatc tgatgcctta actttcgat ttgcacagat cctaaagaag 240  
ataatagaga ctaaaatgtt gatggggcgaa gtgtatgagag aagctgcctt ttcaactagct 300  
gaagccaagt tcacagcagg tgacttcagc actacagttt tccaaaatgtt caataaagcg 360  
caagtgaaga ttcgagcgaa gaaagataat gtacgcgggtt ttactttgcc agtatttgaa 420

cattaccatg aaggaactga cagttatgaa ctgactgggt tagccagagg tgggaaacag 480  
 ttggcttaat taaagaggaa ttatgccaa agcagtggaa ctactgggt aactagcttc 540  
 tcttgcatgc t 551

<210> 362

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 362

gggttacatt ttggattaaa cctgtttccc ggttatgtgt agggAACAGC aaangngatgc 60  
 acnaacttg aacattcggtt atggggaaaa catccttaa cttcggggtc gtctgcCAA 120  
 gcagggtctg ggagggtcca tgcagttccc gntgtgtgg agggAAATGC cctgtctgg 180  
 cctccgagcc cccaggtcca ccgtctcccc tcccttatt tgtaanaata gctacacact 240  
 aacatTTGG gaaggagagg cacataactt ttttaacat ttggtaacta ggttatggc 300  
 tctacattgt cagctacttg ggatatatat ttaattttct taaattcccg ttaaactcta 360  
 ttttatgggt ttgatttcag attgcaaaca tgaaaacct gcatacgAGC gagttctcg 420  
 ttttgcgggt tcttagttc ttactgtca ctgtcatgtat atcagcta at tctttgtgg 480  
 a 481

<210> 363

<211> 461

<212> DNA

<213> Homo sapiens

<400> 363

gaaaccaggaa cctccggcgtg gcctagcgag ttatggcgac gaaggccgtg tgcgtgctga 60  
 agggcgcacgg cccagtgcag ggcatacatca atttcgagca gaaggaaagt aatggaccag 120  
 tgaagggtgtg ggaagcatt aaaggactga ctgaaggcct gcatggattc catttcatg 180  
 agtttggaga taatacagca ggctgtacca gtgcagggtcc tcactttat cctctatcca 240  
 gaaaacacgg tggccaaag gatgaagaga ggcattgtgg agacttggc aatgtgactg 300  
 ctgacaaaga tggtgtggcc gatgtgtcta ttgaagattc tgtatctca ctctcaggag 360  
 accattgcatt cattggccgc acactgggtgg tccatgaaaa acagatgact tggccaaagg 420  
 tggaaatgaa gaaagtacaa agacaggaaa cgcttgaagt c 461

<210> 364

<211> 531

<212> DNA

<213> Homo sapiens

<400> 364

ggttctactt tctgcacgtc agaaatcaat tccatgtca gtcgagtcct gctcttgctg 60  
 gtggtcccag gccatctgat tttcttctac atcatctacc ttggggagggg tcagtcatgc 120  
 ataaacagcc agacctttgt ggtgctctac ctgcgtggcag gcctgatcca ggtgacaatc 180  
 ctgcgttacc tgcgagaagt gatgggttgg ctgacttggc accaggccct ggatcctgac 240  
 aaccactgca tcccttacct tacagggtcg ggggacctgc tcgggtactgg ctcctggca 300  
 ctctgctttt tcaactgactg gctactgaag agcaaggcag agctgggtgg catctcagaa 360  
 ctggcatctg gacccctta actggccccc gctggccca ttgtcttattt agaatttccct 420  
 ctcacatcag tgggatacag aaattcaggat ttccttgc caggtccttgc ggtatgggtga 480

ccccctgcctc tgcagtaacc ttttgtgagt cttgctaagg tagctctcac a

531

&lt;210&gt; 365

&lt;211&gt; 4834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

gatgtggagc tggggtccct gcaagtcatt aacaaaacga gaaagattat ggaacatgg 60  
 ggggccacct tcataatgc ctttgtact acacccatgt gctgcccgtc acggctcc 120  
 atgctcaccg ggaagtatgt gcacaatcac aatgtctaca ccaacaacga gaactgtct 180  
 tccccctcg ggcaggccat gcatgagcct cggactttt ctgtatatct taacaacact 240  
 ggctacagaa cagoctttt tggaaaatac ctcaatgaat ataatggcag ctacatcccc 300  
 cctgggtggc gagaatggct tggattaatc aagaattctc gcttctataa ttacactgtt 360  
 tgcgcaatg gcatcaaaga aaagcatgaa tttgattatg caaaggacta cttcacagac 420  
 ttaatcaacta acgagagcat taattactc aaaatgtcta agagaatgta tccccatagg 480  
 cccgttatga tggtgatcag ccacgctgag ccccacggcc ccgaggactc agccccacag 540  
 ttttctaaac tgtacccaa tgcttcccaa cacataactc cttagttataa ctatgcacca 600  
 aatatggata aacactggat tatgcagttac acagaccaa tgctgcccatt ccacatggaa 660  
 ttacaaaaca ttctacagcg caaaaggctc cagacttga tgcagtggta tgattctgt 720  
 gagaggctgt ataacatgct cgtggagacg ggggagctgg agaataactta catcatttac 780  
 accgcccggacc atggttacca tattggcag tttgactgg tcaaggggaa atccatgcca 840  
 tatgacttgc atattctgtt gctttttt attctgtggc caagtgtaga accaggatca 900  
 atagtcacac agatcgttct caacatttgc ttggccccc cgtatctggta tattgctgg 960  
 ctgcacacac ctctgtatgt ggacggcaag tctgtcctca aacttctggta cccagaaaaag 1020  
 ccaggtaaca gtttgcgaa aaacaagaag gccaaaattt ggcgtgatac attctctgt 1080  
 gaaagagggca aatttctacg taagaaggaa gaatccagca agaatatcca acagtcaa 1140  
 cacttgcaca aatatgaacg ggtcaaagaa ctatgcccgc aggccaggta ccagacagcc 1200  
 tgcgaaacaac cggggcagaa gtggcaatgc attgaggata catctggca gcttgcatt 1260  
 cacaagtgtt aaggacccag tgacctgctc acagtccggc agagcacg 1320  
 gctcgccgct tccatgacaa agacaaaagag tgcaattgtt gggagtcgtt ttaccgtgcc 1380  
 agcagaagcc aaagaaaagag tcaacggcaaa ttcttgagaa accaggggac tccaaagtac 1440  
 aagcccgat ttgtccatac tcggcagaca cgttccttgc ccgtcgaatt tgaaggtgaa 1500  
 atatatgaca taaatctggaa agaagaagaa gaatttgcacatg ttttgcaccc aagaaacatt 1560  
 gctaaggcgtc atgatgaagg ccacaagggg ccaagagatc tccaggctc cagttgtggc 1620  
 aacaggggca ggatgtggc agatagcagc aacggccgtgg gcccacctac cactgtccga 1680  
 gtgacacaca agtgtttat tttcccaat gactctatcc attgtgagag agaactgtac 1740  
 caatcgccca gagcgtggaa ggaccataag gcatacattt acaaagagat tgaagctctg 1800  
 caagataaaa ttaagaattt aagagaatgt agaggacatc tgaagagaag gaaggctgag 1860  
 gaatgttagct gcagtaaca aagctattac aataaaagaga aaggtgtaaa aaagcaagag 1920  
 aaattaaaga gccatcttca cccattcaag gaggtgctc aggaagttaga tagcaaactg 1980  
 caactttca aggagaacaa cctgtggagg aagaaggaga ggaaggaga gagacggcag 2040  
 aggaaggggg aagagtgcag ctcacttgc tcaacgcatttcaacaaccac 2100  
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 aacacctact ggtgtttgcg tacagttat gagacgcata attttctttt ctgtgagttt 2220  
 gctactggct ttttggagta ttttgcatttgc aatacagatc ttatcgtt cacaataca 2280  
 gtgcacacagg tagaacggg cattttgttgc cagctacacg tacaactaat ggagctcaga 2340  
 agctgtcaag gatataagca gtgcacccca agacccataga atcttgcattt tggaaataaaa 2400  
 gatggaggaa gctatgaccc acacagagaa cagttatggg atggatggga aggttaatca 2460  
 gccccgtctc actgcagaca tcaactggca aggccctagag gagctacaca gtgtgaatga 2520  
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 gaaggattt gatagagttt tgcactgttgc aagagtcac tatgagcaaa ataaaacaaa 2640  
 taagactcaa actgctcaaa gtgacgggtt ctgggttgc tctgctgac acgctgtgtc 2700

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 agctgaatct ttttttttttac tttaatctt ttttttttttac ttttttttttac 4620  
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 catgtataat attccatgtt ttttttttttac aacaattctt gtttttttttac 4800  
 caatatttttcaaaataaaaa gtttttttttac 4834

&lt;210&gt; 366

&lt;211&gt; 818

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Glu | Leu | Gly | Ser | Leu | Gln | Val | Met | Asn | Lys | Thr | Arg | Lys | Ile |
|     |     |     |     |     |     |     |     |     | 5   |     | 10  |     |     |     | 15  |
| Met | Glu | His | Gly | Gly | Ala | Thr | Phe | Ile | Asn | Ala | Phe | Val | Thr | Thr | Pro |
|     |     |     |     |     |     |     |     |     | 20  |     | 25  |     |     |     | 30  |
| Met | Cys | Cys | Pro | Ser | Arg | Ser | Ser | Met | Leu | Thr | Gly | Lys | Tyr | Val | His |
|     |     |     |     |     |     |     |     |     | 35  |     | 40  |     |     |     | 45  |
| Asn | His | Asn | Val | Tyr | Thr | Asn | Asn | Glu | Asn | Cys | Ser | Ser | Pro | Ser | Trp |
|     |     |     |     |     |     |     |     |     | 50  |     | 55  |     |     |     | 60  |
| Gln | Ala | Met | His | Glu | Pro | Arg | Thr | Phe | Ala | Val | Tyr | Leu | Asn | Asn | Thr |
|     |     |     |     |     |     |     |     |     | 65  |     | 70  |     |     |     | 80  |
| Gly | Tyr | Arg | Thr | Ala | Phe | Phe | Gly | Lys | Tyr | Leu | Asn | Glu | Tyr | Asn | Gly |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 85  |     | 90  |     | 95  |     |     |     |     |     |     |     |     |     |     |
| Ser | Tyr | Ile | Pro | Pro | Gly | Trp | Arg | Glu | Trp | Leu | Gly | Leu | Ile | Lys | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Ser | Arg | Phe | Tyr | Asn | Tyr | Thr | Val | Cys | Arg | Asn | Gly | Ile | Lys | Glu | Lys |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |
| His | Gly | Phe | Asp | Tyr | Ala | Lys | Asp | Tyr | Phe | Thr | Asp | Leu | Ile | Thr | Asn |
|     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |     |
| Glu | Ser | Ile | Asn | Tyr | Phe | Lys | Met | Ser | Lys | Arg | Met | Tyr | Pro | His | Arg |
|     | 145 |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |     |
| Pro | Val | Met | Met | Val | Ile | Ser | His | Ala | Ala | Pro | His | Gly | Pro | Glu | Asp |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Ser | Ala | Pro | Gln | Phe | Ser | Lys | Leu | Tyr | Pro | Asn | Ala | Ser | Gln | His | Ile |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Thr | Pro | Ser | Tyr | Asn | Tyr | Ala | Pro | Asn | Met | Asp | Lys | His | Trp | Ile | Met |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gln | Tyr | Thr | Gly | Pro | Met | Leu | Pro | Ile | His | Met | Glu | Phe | Thr | Asn | Ile |
|     | 210 |     |     |     | 215 |     |     | 220 |     |     |     |     |     |     |     |
| Leu | Gln | Arg | Lys | Arg | Leu | Gln | Thr | Leu | Met | Ser | Val | Asp | Asp | Ser | Val |
|     | 225 |     |     |     |     | 230 |     |     | 235 |     |     |     | 240 |     |     |
| Glu | Arg | Leu | Tyr | Asn | Met | Leu | Val | Glu | Thr | Gly | Glu | Leu | Glu | Asn | Thr |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |
| Tyr | Ile | Ile | Tyr | Thr | Ala | Asp | His | Gly | Tyr | His | Ile | Gly | Gln | Phe | Gly |
|     |     |     | 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |     |
| Leu | Val | Lys | Gly | Lys | Ser | Met | Pro | Tyr | Asp | Phe | Asp | Ile | Arg | Val | Pro |
|     |     | 275 |     |     |     | 280 |     | 285 |     |     |     |     |     |     |     |
| Phe | Phe | Ile | Arg | Gly | Pro | Ser | Val | Glu | Pro | Gly | Ser | Ile | Val | Pro | Gln |
|     | 290 |     |     |     | 295 |     |     | 300 |     |     |     |     |     |     |     |
| Ile | Val | Leu | Asn | Ile | Asp | Leu | Ala | Pro | Thr | Ile | Leu | Asp | Ile | Ala | Gly |
|     | 305 |     |     |     |     | 310 |     |     | 315 |     |     |     | 320 |     |     |
| Leu | Asp | Thr | Pro | Pro | Asp | Val | Asp | Gly | Lys | Ser | Val | Leu | Lys | Leu | Leu |
|     |     |     | 325 |     |     |     | 330 |     |     | 335 |     |     |     |     |     |
| Asp | Pro | Glu | Lys | Pro | Gly | Asn | Arg | Phe | Arg | Thr | Asn | Lys | Lys | Ala | Lys |
|     |     |     | 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |     |
| Ile | Trp | Arg | Asp | Thr | Phe | Leu | Val | Glu | Arg | Gly | Lys | Phe | Leu | Arg | Lys |
|     |     |     | 355 |     |     |     | 360 |     |     | 365 |     |     |     |     |     |
| Lys | Glu | Glu | Ser | Ser | Lys | Asn | Ile | Gln | Gln | Ser | Asn | His | Leu | Pro | Lys |
|     | 370 |     |     |     | 375 |     |     | 380 |     |     |     |     |     |     |     |
| Tyr | Glu | Arg | Val | Lys | Glu | Leu | Cys | Gln | Gln | Ala | Arg | Tyr | Gln | Thr | Ala |
|     | 385 |     |     |     |     | 390 |     |     | 395 |     |     |     | 400 |     |     |
| Cys | Glu | Gln | Pro | Gly | Gln | Lys | Trp | Gln | Cys | Ile | Glu | Asp | Thr | Ser | Gly |
|     |     |     |     | 405 |     |     |     | 410 |     |     |     | 415 |     |     |     |
| Lys | Leu | Arg | Ile | His | Lys | Cys | Lys | Gly | Pro | Ser | Asp | Leu | Thr | Val |     |
|     |     |     | 420 |     |     |     | 425 |     |     |     | 430 |     |     |     |     |
| Arg | Gln | Ser | Thr | Arg | Asn | Leu | Tyr | Ala | Arg | Gly | Phe | His | Asp | Lys | Asp |
|     |     |     | 435 |     |     |     | 440 |     |     | 445 |     |     |     |     |     |
| Lys | Glu | Cys | Ser | Cys | Arg | Glu | Ser | Gly | Tyr | Arg | Ala | Ser | Arg | Ser | Gln |
|     |     |     | 450 |     |     |     | 455 |     |     | 460 |     |     |     |     |     |
| Arg | Lys | Ser | Gln | Arg | Gln | Phe | Leu | Arg | Asn | Gln | Gly | Thr | Pro | Lys | Tyr |
|     | 465 |     |     |     |     | 470 |     |     | 475 |     |     |     | 480 |     |     |
| Lys | Pro | Arg | Phe | Val | His | Thr | Arg | Gln | Thr | Arg | Ser | Leu | Ser | Val | Glu |
|     |     |     |     | 485 |     |     |     | 490 |     |     |     | 495 |     |     |     |
| Phe | Glu | Gly | Glu | Ile | Tyr | Asp | Ile | Asn | Leu | Glu | Glu | Glu | Glu | Leu |     |
|     |     |     |     | 500 |     |     |     | 505 |     |     | 510 |     |     |     |     |
| Gln | Val | Leu | Gln | Pro | Arg | Asn | Ile | Ala | Lys | Arg | His | Asp | Glu | Gly | His |

|   |                                     |     |
|---|-------------------------------------|-----|
| 515   | 520                                 | 525 |
| Lys Gly Pro Arg Asp Leu Gln Ala Ser Ser Gly | Gly Asn Arg Gly Arg                 |     |
| 530   | 535                                 | 540 |
| Met Leu Ala Asp Ser Ser Asn Ala Val Gly     | Pro Pro Thr Thr Val Arg             |     |
| 545   | 550                                 | 555 |
| Val Thr His Lys Cys Phe Ile Leu Pro Asn Asp | Ser Ile His Cys Glu                 | 560 |
| 565   | 570                                 | 575 |
| Arg Glu Leu Tyr Gln Ser Ala Arg Ala Trp Lys | Asp His Lys Ala Tyr                 |     |
| 580   | 585                                 | 590 |
| Ile Asp Lys Glu Ile Glu Ala Leu Gln Asp Lys | Ile Lys Asn Leu Arg                 |     |
| 595   | 600                                 | 605 |
| Glu Val Arg Gly His Leu Lys Arg Arg Lys     | Pro Glu Glu Cys Ser Cys             |     |
| 610   | 615                                 | 620 |
| Ser Lys Gln Ser Tyr Tyr Asn Lys Glu Lys     | Gly Val Lys Lys Gln Glu             |     |
| 625   | 630                                 | 635 |
| Lys Leu Lys Ser His Leu His Pro Phe Lys     | Glu Ala Ala Gln Glu Val             | 640 |
| 645   | 650                                 | 655 |
| Asp Ser Lys Leu Gln Leu Phe Lys Glu Asn Asn | Arg Arg Arg Lys Lys                 |     |
| 660   | 665                                 | 670 |
| Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys     | Gly Glu Glu Cys Ser Leu             |     |
| 675   | 680                                 | 685 |
| Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn | His Trp Gln Thr Ala                 |     |
| 690   | 695                                 | 700 |
| Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala     | Cys Thr Ser Ser Asn Asn             |     |
| 705   | 710                                 | 715 |
| Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn     | Glu Thr His Asn Phe Leu             | 720 |
| 725   | 730                                 | 735 |
| Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu     | Tyr Phe Asp Met Asn Thr             |     |
| 740   | 745                                 | 750 |
| Asp Pro Tyr Gln Leu Thr Asn Thr Val His     | Thr Val Glu Arg Gly Ile             |     |
| 755   | 760                                 | 765 |
| Leu Asn Gln Leu His Val Gln                 | Leu Met Glu Leu Arg Ser Cys Gln Gly |     |
| 770   | 775                                 | 780 |
| Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn     | Leu Asp Val Gly Asn Lys             |     |
| 785   | 790                                 | 795 |
| Asp Gly Gly Ser Tyr Asp Leu His Arg Gly     | Gln Leu Trp Asp Gly Trp             | 800 |
| 805   | 810                                 | 815 |
| Glu Gly                                     |                                     |     |

<210> 367  
<211> 361  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(361)  
<223> n = A,T,C or G

<400> 367  
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atagtaaat aaaatgcata caattttaaa ttattttctt ataaaactctn tacatgaatg 120  
gctggcggct tccaaacanat aaacttttg acaaagggnac aanatatttt tgggcattca 180

ttttaaatac catctagttt tccaatttagg aggnttctaa aaaaataaat atgacaaata 240  
 tatggatttc tgaagtataa actgacatac aaatctatat attttcttaa tactttcat 300  
 taaagcatct ttaaagcatt ctgtAACATG aagtGANAG ttCAAATTAN atgtaatgaa 360  
 a 361

<210> 368  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(558)  
 <223> n = A,T,C or G

<400> 368  
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 ccaaggaaaa ctcactacca tgagaattgc agtgattgc tttgcctcc taggcac 120  
 ctgtGCCATA ccagttAACAC aggctgattc tggaAGTTCT gaggAAAAGC agctttacAA 180  
 caantACCCA gatgtgtgg ccacatGGCT aaaccctgac ccattctcaga agcagaatct 240  
 CCTAGCCCCA cagaatgtctg tgcctctga agaaACCAAT gacttAAAC aagAGACCCT 300  
 tccaAGTAAG tccaACGAAAC gCCATGACCA catgatgat atggatgatg aagatgatgA 360  
 tgaccatgtg gacAGCCAGG actccattGA ctcgaacgac tctgatgatg tagatgacac 420  
 tgatgattct caccagtctg atgagtctca ccattctgat gaatctgatg aactggcac 480  
 tgatTTTCCC acggacCTGC cagcaACCGA agtttcaCT ccagttgtcc ccacagttagA 540  
 cacatATGAT ggccgagg 558

<210> 369  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

<400> 369  
 ttttacaac atatatctt aattaaattt atattggkgg gttaaaaaaaa cattaagtca 60  
 ggagatgata gctaggaaaa taaggatacc tttgtgatTTT tataacaaaa tattttAA 120  
 taaaaaAGAA taagaaACAT caattggctt tttgtAACTT aaaAGAGACT aaccaAGTGT 180  
 ttttcccAG ttctgtacAA gcagaggcA caggaggatt cttacataAG aagcacAGGG 240  
 AAAAGAAATTG ttaattctgc gtgtgtttt ttgttctca gaattgtttt gaagaACTTT 300  
 gtccAGTCAG AAATGAGTAA aaacaAGATG taagaaACAT taaaACAGGG ggcataTGGT 360  
 cttaaAGAGAT aatcttggag aatataGCAA aagacaAAATT gctccattAG atattataAT 420  
 ttggtatGTA acatgaACAT taaaattCTT gattaaAGTG actaaaAGGG tttttttttt 480  
 aaaaaaaATC aaaacAGAcAC ttacGGGata aaactcaAAA taaatttACT ctcAGTAGTA 540  
 acttGATGTA ggaatataAG tcctctcaCT ttgataAAcA tgaatataAA atattGCTGT 600  
 ctgtattcta gggtttccta cattttctgt aagAGTGT tcattGCTATG tcattatgtAA 660  
 atgactcaac attttGAGCT aaaAGGCTGT tcacaatATA cacattCTT acttacAAAG 720  
 caaaataAGC ttaacacCTT tatattaaaa acccGGGata cagcaggatt agtagcaccG 780  
 tgaaaaataAA ttcttcccAC aaactGCACT cttttattttt actcaatGtG actttctct 840  
 taattGAATT tttaatGtAC cattttAGTA actGGGCAA aatataATT ttcatcttAT 900  
 aattcttGGA gaaAGtCATT ctggacCCAA aaAGTAAATT cacttccttA tttctttAGT 960  
 agaaaaataAA tagagacttt gctctggcgc attGCTGAGG tacatctgaa tcttcattGt 1020  
 t 1021

<210> 370  
 <211> 204

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> n = A,T,C or G

<400> 370

gaaaaaggaa agancaggc ttgatgtgc ctagaatttt gccatttctg agattgagcc 60  
 attgaaggca ttccatttct aaagcttatt tagccggc ttctaaagaa ttccacacta 120  
 acgtgataac atggttttttaaataaaa tgttaggatat ttccctggcac atgcaaataa 180  
 acctaatacat tgtttcttta aaaa 204

<210> 371

<211> 628

<212> DNA

<213> Homo sapiens

<400> 371

gtgatttcta atcctccctt ttttGattta gttggatgtg cttttaaatg tcctttgcct 60  
 gcttgagggt gaaaggggac otttttgagt tgcatttttgcactttcaaa acttattttc 120  
 ttggaaaaca atatttatag ggcttaaagc ccattttcat ttctaatcta aattatgtgt 180  
 gccttatctga aaaccttggg ctctttcttg tttctttccc aaaattcaga agttaatggg 240  
 cttttatgtt ttcttatatt tttttatatt caatgatttg gcctgtctat gttaggctaa 300  
 aaaataaccc tgcgtatgtt accaactaa agtgcattat tttgtgtcac tttttttttt 360  
 cttgtaaaaaa tgacttggat tgaaaatatg tggtagcctt tttatattctt cattaagttc 420  
 tacctaggat atttccaagg actgccacaa aaccatatac tgcagtactt tactacttg 480  
 gaaaaagctgc atctttctac cacattttaa catctaataat attaatttc tttgaagagg 540  
 gttctgtgtt cgttattgtt gttcccgatt taatatagtt ctttgtatct cttaacaggg 600  
 tggaagttat tgcaaaaacac tctggaaa 628

<210> 372

<211> 473

<212> DNA

<213> Homo sapiens

<400> 372

ccagtgtggt ggaattcctg ccgcctgcc gcccgtccgc cctgccggc gtggtcgtg 60  
 cccgtgtgc tccgtcgccc ccgcccaccc acgtcctccc gtgcgtcggt agcgtctcg 120  
 ctacaacatg ttgggcatga tcaagaactc gctgttcggaa agcgttagaga cgtggccctg 180  
 gcaggtccctt agcaaaaggaa acaaggaaga agttgcctat gaagaaaggc cctgtgaagg 240  
 cggcaattt gccacagtag aagtgcacaga taaggcctgtg gatgaggcgtc tacggaaagc 300  
 aatgcccaag gtcgaaagt atgcaggggg caccatgac aaggaaattt ggatggggat 360  
 gacagtccctt atttccttgc ctgtgttccc caatgaagat ggctctctgc agaagaaattt 420  
 aaaagtctgg ttccggattt caaaccattt tcaaaagcgtcc accaggcgtc cca 473

<210> 373

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

&lt;222&gt; (1)...(283)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 373

ttaagtcaa tgcctttat tttagttt tctgaagaca aagctttat aagaatcaca 60  
 gatgaaagat caggcacaaa tcacatttc cccctaata acaaaataca aatccaataa 120  
 tttagaaaaa tcagtttta gtgaccana tgcctggaga aaagctgcc 240  
 ggtctatcg 283  
 agaattttct acatcaatga gaaggatgct gcatacttg gctgtattat  
 ttcctaccgn gagaaaagaa acttaatata tggacatgc ttt

&lt;210&gt; 374

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(529)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 374

tccagngtgg tggattccg cgccggggc gctgctgctg gcgctgctgc tggctcgggc 60  
 tggactcagg aagccggagt cgccaggagc ggcggcccta tcaggaccat gccccggacg 120  
 gtcatcacg tcgcgcac 180  
 tgggtggaga ggacgccc 240  
 ctccggcg 300  
 ggcactca 360  
 cggccgact gcttgaac tgaccttagt gatccctccg ggtgatgg 420  
 ccagtttggc cagctgactt ccatgccatc cttctggagc ctgcaggc 480  
 ttacttcgta tcgaatatct atctgagccc tgcctac 529  
 tgccttggtg aagctgtctg cacctgtcac ctacactaa cacatccagc ccatctgtct  
 ccaggccttc acatttgagt ttgagaac 519  
 gacagactgc tggtgact

&lt;210&gt; 375

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(519)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 375

tttgaattta naccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa 60  
 cataccacaa gagaagttaa ttcttaaca ttgttgtcta tgattattt 120  
 accaagttct gatattttt aaagacatag ttcaaaattt 180  
 taaaatattc ttgttgtgt attagttt taaataccag ctaaaggatt acctcactga 240  
 gtcatcaga ccctcattt cagctccca agatgatgtg ttttgctta ccctaagaga 300  
 gttttcttc ttatttttag ataattcaag tgcttagata aattatgtt tcttaagt 360  
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&lt;210&gt; 376

&lt;211&gt; 171

<212> DNA  
 <213> Homo sapiens

<400> 376

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 atttacaaat aaaattggca ccatgtgcca tctgtacata ttactgtgc atttactttt 120  
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<210> 377

<211> 270

<212> DNA

<213> Homo sapiens

<400> 377

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 tggtgtttga gaaaatgtgg ggctatgggtt caggcgcaact tcacatgtgc aaagatggag 180  
 aaagcactca cctacacgtt taggctcaga atattgatttga aaacattttt aatgatcaaa 240  
 aataaaatgtt tatttttaaa gtttcaaaaaa 270

<210> 378

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(416)

<223> n = A,T,C or G

<400> 378

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 aaaatgaact ccagtnggn ggaatttcggc actcaggaaa tattagttgc atgaacgaag 180  
 gctgcatttt catcanaaca acatgcaggta caacccttc atgtttcaat gagggttcan 240  
 atncccanag ggctatgcta tcattcctgta gcccaactctg ctaacaattt gcanaacgga 300  
 agccttaattt tccanatttctt agtgaacttg atgagtcaan actattgcaat ttggaaatct 360  
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<210> 379

<211> 576

<212> DNA

<213> Homo sapiens

<400> 379

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 actcacaaat ctggatgcat ttctaaattc tgcaaatgtt tcctgggtt acttaacaag 180  
 gaataatccc acaatatacc tagctaccta atacatggag ctggggctca acccactgtt 240  
 ttaaggatt tgcgcttact tgggtgttag gaaaataag tagttcgagg aagtagttt 300  
 taaaatgttag gttctcttgc atctgaatctt gatttcaattt actattgtac tgatagactc cagcattgc 420  
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atgttaaaag gatttagct cactaaaagt gtaata 576  
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 <213> Homo sapiens  
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 cagccactgg ataaaactga tgccaagaac aagtctttt acccttacat ccatgttagta 180  
 aataagtgtg aacttggagc cgtttgtaca atcatcaatg ctgaggaaga agaacagacc 240  
 aaattagtga gggcagggaa gggtcagagg tcactgaccc ctccacctag cagcactgaa 300  
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 <211> 258  
 <212> DNA  
 <213> Homo sapiens  
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 gttagctctt tgaatgttct taaaatttt gacttcttt gtaaacaat gatatgtcct 180  
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 aataacttaaa cactgaaa 258  
 <210> 382  
 <211> 580  
 <212> DNA  
 <213> Homo sapiens  
 <400> 382  
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 ccaataaaag gtttccaa cttgaagttt actctgaaa 580  
 <210> 383  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens  
 <400> 383  
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 ggaaaaattt aatgcttagca aaaaataat ttagaaatat ggcgtacat gaaaatacaa 180  
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 tagtaaaatca atttttttt tatttcaaattt ttttgattt acacttgagg gtaaattaaa 540  
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<210> 384

<211> 585

<212> DNA

<213> Homo sapiens

<400> 384

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 gaaaatgtg aattcttgta cattttgttta atcaagattt taggaaaaaac agaagtacat 180  
 ctatctttat gaaattttgg gcaggtttt gtgtatcaat atttgtact ttttaggaat 240  
 attttatttt ttagttattt gtgtcaaattt ataattataa aaggtacagc agaaaatata 300  
 ccatgtttt atataggttc acacctgtac ttaggaggga ccctgtccat ctatatactt 360  
 tttgtataaa attttaaaat gttaaagatc cacaaggctt taataaaaatg attctatagc 420  
 tagaaaaaaca tttaccttcc cagtgccttgcactaaaata tactgtgaaa ggaaactaga 480  
 aagactgtaa ctattgctgg aaatgttota tattgaatgt acatgcttctt gttggaaaaa 540  
 tgtctatatg ttagggaaat aaaccagaat cgaagtttatt tcaaa 585

<210> 385

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 385

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 aattttaggac agttgcaaaccgtaaaagaa gaaaatttattt caaattttggcattttattt 180  
 gtttaaaaat tgcataaaag gaaaaattttaa gaataagtac tggcgaacca tctctgtgg 240  
 cttgtttaaa aaggggaaaa gtttttagact actaaattttt ttaacagttaa gttataaaaat 300  
 ttagtagtct aaaacttata acttactgtt aaaagcaaaa atggccatgc aggttgacac 360  
 cggtggtaat ttataatagc ttttgttgc tcccaactttt ccattttgtt cagataaaaa 420  
 aaaccatgaa attactgngt ttgaaatattt ttcttatgtt ttgtaatattt tctgtaaattt 480  
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<210> 386

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(311)

<223> n = A, T, C or G

<400> 386

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 acatttcaac acgttatttca taaccacact taccacttac agccaactgc accagaatct 180  
 acttctgaac cttttccgtg gcctgggaag tcacagaaga taaggagtag ataccttcaa 240  
 gacacagata gaaacttgag ccgtgatgaa cagcngcta aagctttgca tatccctttt 300  
 tctgtatgt a 311

<210> 387

<211> 461

<212> DNA

<213> Homo sapiens

<400> 387

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 cttctgtgcc ttctatcttctt cccttaaggaa aaccacatta gatgaaccca gggctcagtc 180  
 atttttagggaa gagggttgag acaacactgc cagcaacaca gctggaatca cccgagtcgg 240  
 gaacattaaaa gttcctgaga gaatatgaaa caactatcaa cataatattt ctccctactt 300  
 ttacagtaaa atatttggaa taaataaaata tagggaatgc aacaactggc taggagtgtt 360  
 ttacattttagt ttgtttggaa gcataaacaca ttcaagtcctt ttgaatcttc ccgttagaaaa 420  
 atacagaattt actctatcac cttttaaaggta acatggaaaa a 461

<210> 388

<211> 555

<212> DNA

<213> Homo sapiens

<400> 388

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 actaccat ccgaagtgtc aactgtgtca ggactaagaa accctggtt tgagtagaaaa 120  
 agggccttggaa aagaggggag ccaacaaatc tgtctgttcc ctcacatttt tcattggca 180  
 ataaggcattc tgtcttttg gctgtgtcctt cagcacagag agccagaact ctatcggca 240  
 ccaggataac atctctcagt gaacagagtt gacaaggcctt atggaaatg cctgatggga 300  
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 agacccttcc tggccacaat tcaaattttttt gcaacaaaca tataccttcc atgaagcaca 480  
 cacagactttt tgaaagcaag gacaatgact gcttgaatttggccttggagttt gaatgaagct 540  
 ttgaaggaaaa agaat 555

<210> 389

<211> 563

<212> DNA

<213> Homo sapiens

<400> 389

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 cattcacctt ggtcctacac ttttttagat gcttgggttca cataacacca cttataatgtt 180  
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 agcagcccta gaaagtaagc ccagggttcc agatctaattttt tagtccaaaa gctaaatgtt 300  
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gcaatttaggg aatgtttctg aaacattaaa cttgtattta tgtcaactaaa attctaacac 420  
 aaactaaaaa aatgtgtctc atacatatgc tgtacttaggc ttcatcatgc atttctaaat 480  
 ttgtgtatga tttgaatata taaaagratt tataacaagag tgttatttta aattattaaa 540  
 aataaatgt aataattga aaa 563

<210> 390

<211> 278

<212> DNA

<213> Homo sapiens

<400> 390

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 gtgatgactg aggttaattc agtctgtcaa ttacatcagt ataattgcct tcttgtacc 180  
 ctaagtatgg tgaagcagaa ttgaattcta caaaagtctt tcatctgttt tcctatggaa 240  
 taattaacaa acccaataaaa tgtataaaata gcatgaaa 278

<210> 391

<211> 578

<212> DNA

<213> Homo sapiens

<400> 391

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 gtcgaggggg caccggccag ctttggcaag agcttcgcgc agaaatctgg ctacttcgt 180  
 tgccttagtt ctctggcag cctagagaac ccgcaggaga acgtggtgcc cgatatccag 240  
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 cttcgaatag gggacatggg cggcttgcgtt atctgtgtca agaaggccaa ggccccgagg 480  
 ccagtgccca agccccgagg tctcagccgg gacatgcagg gcctctctt ggatgcagcc 540  
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<210> 392

<211> 439

<212> DNA

<213> Homo sapiens

<400> 392

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 acttataaac taattcacac aagtgtttgtt ctttagatgtat taaggaagac tataatctaga 180  
 tcatgtctgtat ttttttatttgc tgcatttcgc agccctggc tgaattttttt aaggttttat 240  
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 actttcaaaa taaagatgtat aatgcactgc caataataac catttttagga aggtgttttgc 360  
 aattctgtat gtatataatttgc actttctgtat atttagatat gccaaaagaa taaaatcaa 420  
 aagcactaag aaataaaaaa 439

<210> 393

<211> 544

<212> DNA

<213> Homo sapiens

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accaagtctt gatatcttt aaagacatag ttcaaaattt ctttggaaaa tctgtattct 180  
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<210> 394  
<211> 424  
<212> DNA  
<213> Homo sapiens

<400> 394  
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aaaa 424

<210> 395  
<211> 279  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(279)  
<223> n = A,T,C or G

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<210> 396  
<211> 3293  
<212> DNA  
<213> Homo sapiens

<400> 396  
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 taaaactatgt aatgttgcctg tataatataat gaatgttttca gagaagaaac tctaaatagt 3060  
 tggaaaggcta acctgctcaa aggatccaa ataatgtttt aactggacaa cctgaaaattt 3120  
 agcatagaaa acaatccctt gttatatttt agtgcatttgc aagattgaga aaatattata 3180  
 tagtttagata ataacattct tgcactttt atcctgtctg gttacaaaat tttttaaaac 3240  
 ttaaataaaaa acatgcattt taaaatggaaa aaaaaaaaaa aaaaaaaaaactc gag 3293

<211> 727  
<212> PRT  
<213> Homo sapiens

<400> 397  
Gln Pro Arg Ala Arg Pro Arg Pro Gly Gln Glu Arg Arg Gly Phe Val  
5 10 15  
Met His Leu Lys Pro Tyr Trp Lys Leu Gln Lys Lys Glu His Pro Pro  
20 25 30  
Glu Val Ser Arg Glu Thr Gln Arg Thr Pro Met Asn His Gln Lys Ala  
35 40 45  
Val Asn Asp Glu Thr Cys Lys Ala Ser His Ile Thr Ser Ser Val Phe  
50 55 60  
Pro Ser Ala Ser Leu Gly Lys Ala Ser Ser Arg Lys Pro Phe Gly Ile  
65 70 75 80  
Leu Ser Pro Asn Val Leu Cys Ser Met Ser Gly Lys Ser Pro Val Glu  
85 90 95  
Ser Ser Leu Asn Val Lys Thr Lys Lys Asn Ala Pro Ser Ala Thr Ile  
100 105 110  
His Gln Gly Glu Glu Glu Gly Pro Leu Asp Ile Trp Ala Val Val Lys  
115 120 125  
Pro Gly Asn Thr Lys Glu Lys Ile Ala Phe Phe Ala Ser His Gln Cys  
130 135 140  
Ser Asn Arg Ile Gly Ser Met Lys Ile Lys Ser Ser Trp Asp Ile Asp  
145 150 155 160  
Gly Arg Ala Thr Lys Arg Arg Lys Lys Ser Gly Asp Leu Lys Lys Ala  
165 170 175  
Lys Val Gln Val Glu Arg Met Arg Glu Val Asn Ser Arg Cys Tyr Gln  
180 185 190  
Pro Glu Pro Phe Ala Cys Gly Ile Glu His Cys Ser Val His Tyr Val  
195 200 205  
Ser Asp Ser Gly Asp Gly Val Tyr Ala Gly Arg Pro Leu Ser Val Ile  
210 215 220  
Gln Met Val Ala Phe Leu Glu Gln Arg Ala Ser Ala Leu Leu Ala Ser  
225 230 235 240  
Cys Ser Lys Asn Cys Thr Asn Ser Pro Ala Ile Val Arg Phe Ser Gly  
245 250 255  
Gln Ser Arg Gly Val Pro Ala Val Ser Glu Ser Tyr Ser Ala Pro Gly  
260 265 270  
Ala Cys Glu Glu Pro Thr Glu Arg Gly Asn Leu Glu Val Gly Glu Pro  
275 280 285  
Gln Ser Glu Pro Val Arg Val Leu Asp Met Val Ala Lys Leu Glu Ser  
290 295 300  
Glu Cys Leu Lys Arg Gln Gly Gln Arg Glu Pro Gly Ser Leu Ser Arg  
305 310 315 320  
Asn Asn Ser Phe Arg Arg Asn Val Gly Arg Val Leu Leu Ala Asn Ser  
325 330 335  
Thr Gln Ala Asp Glu Gly Lys Thr Lys Lys Gly Val Leu Glu Ala Pro  
340 345 350  
Asp Thr Gln Val Asn Pro Val Gly Ser Val Ser Val Asp Cys Gly Pro  
355 360 365  
Ser Arg Ala Asp Arg Cys Ser Pro Lys Glu Asp Gln Ala Trp Asp Gly  
370 375 380  
Ala Ser Gln Asp Cys Pro Pro Leu Pro Ala Gly Val Ser Phe His Ile

|   |     |     |     |
|---|-----|-----|-----|
| 385   | 390 | 395 | 400 |
| Asp Ser Ala Glu Leu Glu Pro Gly Ser Gln Thr Ala Val Lys Asn Ser |     |     |     |
| 405   | 410 | 415 |     |
| Asn Arg Tyr Asp Val Glu Met Thr Asp Glu Leu Val Gly Leu Pro Phe |     |     |     |
| 420   | 425 | 430 |     |
| Ser Ser His Thr Tyr Ser Gln Ala Ser Glu Leu Pro Thr Asp Ala Val |     |     |     |
| 435   | 440 | 445 |     |
| Asp Cys Met Ser Arg Glu Leu Val Ser Leu Thr Ser Arg Asn Pro Asp |     |     |     |
| 450   | 455 | 460 |     |
| Gln Arg Lys Glu Ser Leu Cys Ile Ser Ile Thr Val Ser Lys Val Asp |     |     |     |
| 465   | 470 | 475 | 480 |
| Lys Asp Gln Pro Ser Ile Leu Asn Ser Cys Glu Asp Pro Val Pro Gly |     |     |     |
| 485   | 490 | 495 |     |
| Met Leu Phe Phe Leu Pro Pro Gly Gln His Leu Ser Asp Tyr Ser Gln |     |     |     |
| 500   | 505 | 510 |     |
| Leu Asn Glu Ser Thr Thr Lys Glu Ser Ser Glu Ala Ser Gln Leu Glu |     |     |     |
| 515   | 520 | 525 |     |
| Asp Ala Ala Gly Gly Asp Ser Ala Ser Glu Glu Lys Ser Gly Ser Ala |     |     |     |
| 530   | 535 | 540 |     |
| Glu Pro Phe Val Leu Pro Ala Ser Ser Val Glu Ser Thr Leu Pro Val |     |     |     |
| 545   | 550 | 555 | 560 |
| Leu Glu Ala Ser Ser Trp Lys Lys Gln Val Ser His Asp Phe Leu Glu |     |     |     |
| 565   | 570 | 575 |     |
| Thr Arg Phe Lys Ile Gln Gln Leu Leu Glu Pro Gln Gln Tyr Met Ala |     |     |     |
| 580   | 585 | 590 |     |
| Phe Leu Pro His His Ile Met Val Lys Ile Phe Arg Leu Leu Pro Thr |     |     |     |
| 595   | 600 | 605 |     |
| Lys Ser Leu Val Ala Leu Lys Cys Thr Cys Cys Tyr Phe Lys Phe Ile |     |     |     |
| 610   | 615 | 620 |     |
| Ile Glu Tyr Tyr Asn Ile Arg Pro Ala Asp Ser Arg Trp Val Arg Asp |     |     |     |
| 625   | 630 | 635 | 640 |
| Pro Arg Tyr Arg Glu Asp Pro Cys Lys Gln Cys Lys Lys Tyr Val     |     |     |     |
| 645   | 650 | 655 |     |
| Lys Gly Asp Val Ser Leu Cys Arg Trp His Pro Lys Pro Tyr Cys Gln |     |     |     |
| 660   | 665 | 670 |     |
| Ala Leu Pro Tyr Gly Pro Gly Tyr Trp Met Cys Cys His Arg Ser Gln |     |     |     |
| 675   | 680 | 685 |     |
| Lys Gly Phe Pro Gly Cys Lys Leu Gly Leu His Asp Asn His Trp Val |     |     |     |
| 690   | 695 | 700 |     |
| Pro Ala Cys His Ser Phe Asn Arg Ala Ile His Lys Lys Ala Lys Gly |     |     |     |
| 705   | 710 | 715 | 720 |
| Thr Glu Ala Glu Glu Tyr   |     |     |     |
| 725   |     |     |     |

<210> 398  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 398  
ccagtgtggt ggaattccag cctcggtgccg ggagtcgccc cattgtggtc cgcttctctg 60  
cactatgtcg ggtggccctcc tgaaggcgt gcgcacgcac tcctacgtgg agctgagcca 120  
gtaccgggac cagcacttcc ggggtgacaa tgaagaacaa gaaaaattac tgaagaaaag 180

ctgtacgtta tatgttgaa atctttcttt ttacacaact gaagaacaaa tctatgaact 240  
 cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300  
 agcatgtgga ttctgtttt tgaaatatta ctcacgcgca gatgcggaaa acgccatgcg 360  
 gtacataaat gggacgcgtc tggatgaccg aatcattcgc aca 403

<210> 399

<211> 403

<212> DNA

<213> Homo sapiens

<400> 399

ttttgatgct ttctttcatg ggaatagtca cttttttatt tagtaaatcg cattgctgga 60  
 accaccaagg agtgtgaaat gtccttgagt gtattattta tgcaagtac agtcacggt 120  
 ccatcatggc agctatgtga aacactaata aatgtgttt tacttttat tcccgttaaa 180  
 actgtatgtaa aacaggataa aggcttgta tagtcaactta taagtatctg ggtctaagta 240  
 atttccttag atgtttctaa agaaacattt tcagcttgc tcccattatg attccaataa 300  
 ggaacgottt cctagtgcaa ttttaggat aaagttgaa gagataaaaa tagccaaaga 360  
 taggagacgt ctgaatttt aatgataaac agtgtatgtt taa 403

<210> 400

<211> 283

<212> DNA

<213> Homo sapiens

<400> 400

ttatttttcc cctcaaattc atgattttta cgtctgttac aaagggattt ttgctgatag 60  
 ctctttgggt cccactgttc cattttatgc taatagattc cattctaggg cccagccgtc 120  
 tcttgactga tggtgttccc ttaaccctt ggcatgtata atagaatttt ggtgaatgaa 180  
 agaacccaa taggcccagat agtcccccca ggccctgata tccataaaaag gcttggaaat 240  
 gcattatgtt attgtccta gtcttttgt tggatgaa aaa 283

<210> 401

<211> 303

<212> DNA

<213> Homo sapiens

<400> 401

cataaagggt gtgcgcgtct tcgacgtggc ggtcttggcg ccactgctgc gagacccggc 60  
 cctggacctc aaggcatcc acttgggtgcg tgatccccgc gcggtggcga gttcacggat 120  
 ccgctcgcc cacggcctca tccgtgagag cctacaggtg gtgcgcagcc gagacccgac 180  
 agctcaccgc atgcccctct tggaggccgc gggccacaag cttggcgcac agaaggaggg 240  
 cgtggccggc cccgcagact accacgcctc gggcgctatg gaggtcatct gcaatagat 300  
 ggc 303

<210> 402

<211> 473

<212> DNA

<213> Homo sapiens

<400> 402

ccaacacagt cagaaacatt gtttgaatc ctctgtaaac caaggcatta atcttaataa 60  
 accaggatcc atttaggtac cacttgatataaaaaggata tccataatga atatttata 120  
 ctgcatttc tacattagcc actaaatacg ttattgttg atgaagacct ttcacagaat 180  
 cctatggatt gcagcatttc acttggctac ttcataacca tgccttaaag agggcagtt 240

tctcaaaagc agaaacatgc cgccagttct caagtttcc tcctaactcc atttgaatgt 300  
 aaggcgact ggcccccaat gtggggaggt ccgaacattt tctgaattcc cattttctg 360  
 ttcgcggcta aatgacagtt tctgtcatta cttagattcc gatctttccc aaaggtgtg 420  
 atttacaaag aggccagcta atagcagaaa tcatgaccct gaaagagaga tga 473

<210> 403

<211> 513

<212> DNA

<213> Homo sapiens

<400> 403

gcattaact tttagaattt gggctggta gattaatttt ttttaatatac ccagctagag 60  
 atatggcctt taactgacct aaagagggtgt gtttgattt aattttttcc cgttcccttt 120  
 tcttcagtaa acccaacaat agtctaacct taaaaattga gttgatgtcc ttataggtca 180  
 ctacccctaa ataaacacctga agcaggtgtt ttctcttgga catactaaaa aatacctaaa 240  
 aggaagctta gatggctgt gacacaaaaa attcaattac tgtcatctaa tgccagctgt 300  
 taaaagtgtg gccactgagc atttgatttt atagaaaaaa atagtatttt tgagaataac 360  
 atagctgtgc tattgcacat ctgttggagg acatcccaga tttgcttata ctcagtgcct 420  
 gtgatattga tttaaggat ttgaggcagg gtaattattt aaacatattt cttctattct 480  
 tggaaaaata gaagtgtaaa atgttaataa tac 513

<210> 404

<211> 533

<212> DNA

<213> Homo sapiens

<400> 404

ccagtgttgtt ggaattcgcg gtaggctggg accataacac aagcatgact atatgaagga 60  
 agaggaagggt tttcctgaag atgaggcgac tgaatcgaa aaaaacttta agtttgtaa 120  
 aagagtttggta tgccttcgg aagtttcctg agagctatgt agagacttca gccagtggag 180  
 gtacagtttc tctaatacgta ttacaacta tggctttt aaccataatg gaattctcag 240  
 tataatcaaga tacatggatg aagtatgaat acgaagtaga caaggatttt tctagcaa 300  
 taagaattaa tatagatatt actgttgcca tgaagtgtca atatgttggta gcggatgtat 360  
 tggattttagc agaaacaaatg gttgcatctg cagatggttt agtttatgaa ccaacagtat 420  
 ttgatcttc accacacgcg aaagagtggc agagatgtc gcagctgatt cagagtaggc 480  
 tacaagaaga gcattcaattt caagatgtga tattaaaag tgctttaaa agt 533

<210> 405

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(513)

<223> n = A,T,C or G

<400> 405

ccagngnggt ggaattcctt agacatattc tgagcctaca gcagaggaac ctccagtctc 60  
 agcaccatga atcaaactgc cattctgatt tgctgcctt tctttctgac tctaagtggc 120  
 attcaaggag tacctctctc tagaactgtt cgctgtaccc gcatcagcat tagtaatcaa 180  
 cctgttaatc caaggtcttt agaaaaaactt gaaattattt ctgcaagcca attttgtcca 240  
 cgtgttgaga tcattgtcac aatgaaaaag aaggtgtgaga agagatgtct gaatccagaa 300  
 tcgaaggcca tcaagaattt actgaaagca gttagcaagg aaaggtctaa aagatctcct 360

```

taaaaccaga ggggagcaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagttgca 480
gttacactaa aaggtgacca atcatggtca cca 513

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<210> 406

211 <211> 483

<212> DNA

<213> Homo sapiens

<400> 406

|             |             |              |             |             |             |     |
|-------------|-------------|--------------|-------------|-------------|-------------|-----|
| ataataccatt | taatacattt  | acactttctt   | attnaagaag  | atattgaatg  | caaaaataatt | 60  |
| gacatataga  | actttacaaa  | catatgtcca   | aggactctaa  | attgagactc  | ttcccacatgt | 120 |
| acaatctcat  | cattctgaag  | cctataatga   | agaaaaaagat | ctagaaactg  | agttgtggag  | 180 |
| ctgactctaa  | tcaaatgtga  | tgatttggaaat | tagaccattt  | ggccttggaa  | ctttcatagg  | 240 |
| aaaaatgacc  | caacatttct  | tagcatgagc   | tacctcatct  | ctagaagctg  | ggatggactt  | 300 |
| actattcttg  | tttatattttt | agataactgaa  | aggtgctatg  | cttctgttat  | tattccaaga  | 360 |
| ctggagatag  | gcagggctaa  | aaaggtattta  | ttattttcc   | tttaatgtatg | gtgctaaaat  | 420 |
| tcttcctata  | aaatttcctta | aaaataaaaga  | tgtttaatc   | actaccattt  | tggaaacata  | 480 |
| act         |             |              |             |             |             | 483 |

<210> 407

241

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

$\langle 222 \rangle$  (1) . . . (241)

<223> n = A, T, C or G

<400> 407

tcacaaagnc cactttactc aaatttgtga acagngnata ggaagaagcc agcaggagct 60  
ctgactaagg ttgacataat angtccacct cccattactt tgatatctga tcaaatgtat 120  
agactnggct ttgttttttg tgctattagg aaattctgat gagcattactt attcactgat 180  
gcagaaaagac gtcttttgc ataaaaagact ttttttaaca ctggactt ctctgaaata 240  
t 241

210 408

<211> 213

<212> DNA

<213> Homo sapiens

<400> 408

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ccagtgttgtt ggaattcaca tgatacagcc actgggctta tacagtatgc attggaccag 60  
ggcgtgaacg tcacccagg t attcgtggac accgtaggga tgccagagac ataccaggcg 120  
cggttgcagc aaagtttcc cgggatggag gggaccggcc aaggccaaag cagatgccct 180  
ctaccccggtt gttagtgctg ccagcatctg tgc 213
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<210> 409

<211> 413

<212> DNA

<213> Homo sapiens

409

tcagatgagt ggctgctcaa gggccccct tgcattttc attataaccc aatttccact 60  
 tatttgaact cttaaatgtcat aaatgtataa tgacttatga attagcacag ttaagttgac 120  
 actagaaaact gcccatttct gtattacaat atcaaataagg aaacattgga aagatggga 180  
 aaaaaatctt attttaaat ggcttagaaa gtttcagat tactttgaaa attctaaact 240  
 tctttctgtt tccaaaactt gaaaatatgt agatggactc atgcattaaag actgtttca 300  
 aagcttcctt cacattttt aagtgtgatt ttccctttaa tatacatatt tattttcttt 360  
 aaagcagctt tatcccaacc catgactttg gagatatacc tataaaaacca ata 413

<210> 410  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(153)  
 <223> n = A,T,C or G

<400> 410  
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 taganaatata gaagaatgca tgtcaaaaaga tct 153

<210> 411  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<400> 411  
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 ggtctgcggc ttaggtaaa atgcctcgtg taaaagcgc tcaagctgga agacagagct 120  
 ctgaaagag acatcttgca gaacaattt caagttggag agataataac tgacatggca 180  
 aaaaaggaat ggaaagttagg attaccatt ggccaaggag gcttggctg tatatatctt 240  
 gctgatatga att 253

<210> 412  
 <211> 3079  
 <212> DNA  
 <213> Homo sapiens

<400> 412  
 gaagtgagta gtgggggtgc cagaccaggc gcgtctgccg ctggatttg ataggaagca 60  
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 ttgtgcggc ggtggagatt ctcgtgaag gaaatgaagt ccaatttatac cagttggcga 180  
 aggactttga ggattccgt aaaaagtggc agaggactga ccatgagctg gggaaataca 240  
 agatctttt gatgaaagca gagactgagc gaagtgcctt ggtatgttaag ctgaagcatg 300  
 cacgtaatca ggtggatgtc gagatcaaac ggagacagag agctgaggtc gactgcgaaa 360  
 agctgaaacg acagattcag ctgattcgag agatgtcat gtgtgacaca tctggcagca 420  
 ttcaactaaag cgaggagcaa aaatcagctc tggctttctt caacagaggc caaccatcca 480  
 gcagcaatgc tggaaacaaa agactatcaa ccattgtga atctggttcc attttatcac 540  
 atatcagtt tgacaagact gatgaatcac tggattggc ctcttcttt gtgaagactt 600  
 tcaaactgaa gaagagagaa aagaggcgt ctactagccg acagttttt gatggcccc 660  
 ctggacctgt aaagaaaact cttccattt gctctgcagt agaccaggaa aatgaatcca 720  
 tagttgcaaa aactacagtg actgttccca atgatggcgg gcccattcgaa gctgtgtcca 780

ctattgagac tggccatat tggaccagga gccgaaggaa aacaggtact ttacaacctt 840  
 ggaacagtga ctccaccctg aacagcagggc agctggagcc aagaactgag acagacagtg 900  
 tggcacgccc acagagtaat ggagggatgc gcctgcatga ctttgttct aagacggta 960  
 ttaaacctga atcctgtgtt ccatgtggaa agcggataaa atttgccaaa ttatctctga 1020  
 agtgcgaga ctgtcgatc gtctctcatc cagaatgtcg ggaccgctgt ccccttcct 1080  
 gcattectac cctgatagga acacctgtca agattggaga gggaatgtcg gcagacttg 1140  
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 ctttcgcct taacagagcc tttatggaaag cagcagaaat cacagatgaa gacaacagca 1440  
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 tcctcatgat ccacttgcag agagtggctc agagtcacca tactaaaatg gatgttgcca 1560  
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 cacagagagt ccgttccacc ctcaccaaga acacttcatttctt atttggagc aaaagcaagt 1920  
 ctgcccactaa cctaggacga caaggcaact ttttgcctt tccaatgttc aagtgaagtc 1980  
 acatctgcctt gttacttccc agcattgact gactataaga aaggacacat ctgtactctg 2040  
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 aattgtgcat gagggtttta ttaaaactat atatatctcc ctttccttctt cctcaagtca 2160  
 cataatatca gcacttgcgtt ctggcatttgc ttggagctt tttagatgaga catctttcca 2220  
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 cctttggctt aaaggccaaat gctgctcata gaatgatctt tctctagttt catttagaaac 2340  
 tgatttccgtt gagacaatga cagaaaccctt acctatgtca taagatttgc ttgtctcagg 2400  
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 tctaagaacc agaagttctc attccccattt atgaactgag ctataatatg gagctttcat 2520  
 aaaaatggga tgcattgagg acagaacttag tgatggagttt atgcgtatgtt ttgatttgg 2580  
 tgatttaggtc tttaatagtg ttgagttggca caacccatgtt aatgtgaaag tacaactcgt 2640  
 atttatctt gatgtgcgc tggctgaact ttgggttcat ttgggttcaa agccagttt 2700  
 tcttttaaaa ttgaattcat tctgatgcctt ggccccatca cccccaacctt tgcctcagg 2760  
 agcccaactt ctaaaggctca atatatcatc ctttggcatc ccaactaaca ataaagagta 2820  
 ggctataagg gaagattgtc aatattttgtt ggttggaaa gctacagtca ttttttctt 2880  
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 ttttcttctgtt ttaaaattat tcttaatgtc tgaaaaacg attttcttctt gttagaatgtt 3000  
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<210> 413  
 <211> 632  
 <212> PRT  
 <213> Homo sapiens

<400> 413  
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                           20                         25                    30  
 Leu Ala Lys Asp Phe Glu Asp Phe Arg Lys Lys Trp Gln Arg Thr Asp  
                           35                         40                    45  
 His Glu Leu Gly Lys Tyr Lys Asp Leu Leu Met Lys Ala Glu Thr Glu  
                           50                         55                    60

Arg Ser Ala Leu Asp Val Lys Leu Lys His Ala Arg Asn Gln Val Asp  
 65 70 75 80  
 Val Glu Ile Lys Arg Arg Gln Arg Ala Glu Ala Asp Cys Glu Lys Leu  
 85 90 95  
 Glu Arg Gln Ile Gln Leu Ile Arg Glu Met Leu Met Cys Asp Thr Ser  
 100 105 110  
 Gly Ser Ile Gln Leu Ser Glu Glu Gln Lys Ser Ala Leu Ala Phe Leu  
 115 120 125  
 Asn Arg Gly Gln Pro Ser Ser Ser Asn Ala Gly Asn Lys Arg Leu Ser  
 130 135 140  
 Thr Ile Asp Glu Ser Gly Ser Ile Leu Ser His Ile Ser Phe Asp Lys  
 145 150 155 160  
 Thr Asp Glu Ser Leu Asp Trp Asp Ser Ser Leu Val Lys Thr Phe Lys  
 165 170 175  
 Leu Lys Lys Arg Glu Lys Arg Arg Ser Thr Ser Arg Gln Phe Val Asp  
 180 185 190  
 Gly Pro Pro Gly Pro Val Lys Lys Thr Arg Ser Ile Gly Ser Ala Val  
 195 200 205  
 Asp Gln Gly Asn Glu Ser Ile Val Ala Lys Thr Thr Val Thr Val Pro  
 210 215 220  
 Asn Asp Gly Gly Pro Ile Glu Ala Val Ser Thr Ile Glu Thr Val Pro  
 225 230 235 240  
 Tyr Trp Thr Arg Ser Arg Arg Lys Thr Gly Thr Leu Gln Pro Trp Asn  
 245 250 255  
 Ser Asp Ser Thr Leu Asn Ser Arg Gln Leu Glu Pro Arg Thr Glu Thr  
 260 265 270  
 Asp Ser Val Gly Thr Pro Gln Ser Asn Gly Gly Met Arg Leu His Asp  
 275 280 285  
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421

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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| ccagatgacg  | atgatggaaa  | tccaaatgaa   | catagaggcg  | cagaatccga  | agcataaactc  | 2040 |
| acttgcgcct  | gtggggaaag  | agcaaacagg   | aaggagagct  | acctcctaag  | gtttttaacg   | 2100 |
| tctctgacat  | acaggcacac  | tgacctgatt   | tccgaaggct  | gacaatcggt  | tgtggaatgt   | 2160 |
| aatcttgatg  | ccttgatact  | gagacttggg   | agggaaaacta | agaaatggtt  | gacagcgttc   | 2220 |
| ccacccatct  | acaatgttat  | tttaggtgct   | tttgtttaag  | tctttttct   | tagattgcgc   | 2280 |
| taaaatttct  | tagattttc   | agcgctcaga   | acaaaagttt  | aaaaaatgca  | ttgttcatat   | 2340 |
| gaatgtcatc  | tcttttcagt  | ttccagttatc  | ctttttaaaa  | aatggcaaaa  | gccttagatt   | 2400 |
| acaatttgat  | gaacactaaa  | tattttttat   | taatataatc  | tattttggta  | ttttacttaa   | 2460 |
| tgagctttaa  | gtgcctgtcg  | ttctgaaaat   | tgtgtattta  | taatttcagct | tatctcacaa   | 2520 |
| ttggacctaa  | tagcatttct  | ttgtgcagtt   | aggtgacgag  | cactgctttg  | aggccccaaagc | 2580 |
| actagtagag  | atgcgcgata  | caggtctagt   | ttcggtaact  | gttccagaca  | tcaagcaata   | 2640 |
| aaaaaaatgaa | taccacaaaa  | gatgtttgat   | tttacagtgg  | agccttactg  | aaccagcatt   | 2700 |
| cagaagttt   | aggccttcct  | aggatgtttagt | attttttagta | gtggatcaact | gtggacagagg  | 2760 |
| tgcagctcta  | ccagttctg   | tttcttctga   | gccagaccct  | cttcaggaa   | gggaccaatt   | 2820 |
| aattttaaaa  | ctcaacttga  | gcacagctgg   | tcatggggct  | tggtataaaag | ttccttatttc  | 2880 |
| caccctgtata | cttccaattt  | ctggaaacccc  | agcccactcc  | cccatccctc  | ctccctatca   | 2940 |
| aactagtata  | atgattttga  | atcggtacag   | tgtgtttaac  | tgtaactaag  | ttcaacacagac | 3000 |
| tattattatc  | tttggtaataa | attaacctag   | caataaaaaat | tattctgttt  | aaaaaaaaaa   | 3060 |
| aaaaaaacaac | tcgaaq      |              |             |             |              | 3075 |

<210> 425  
<211> 819  
<212> PRT  
<213> *Homo sapiens*

<400> 425  
 Gly Asp Phe Gly Gly Ser Ser Leu Ala Ala Gly Met Ala Gly Thr  
               5                 10                 15  
 Val Val Leu Asp Asp Val Glu Leu Arg Glu Ala Gln Arg Asp Tyr Leu  
               20                 25                 30  
 Asp Phe Leu Asp Asp Glu Glu Asp Gln Gly Ile Tyr Gln Ser Lys Val  
               35                 40                 45  
 Arg Glu Leu Ile Ser Asp Asn Gln Tyr Arg Leu Ile Val Asn Val Asn  
               50                 55                 60  
 Asp Leu Arg Arg Lys Asn Glu Lys Arg Ala Asn Arg Leu Leu Asn Asn  
               65                 70                 75                 80  
 Ala Phe Glu Glu Leu Val Ala Phe Gln Arg Ala Leu Lys Asp Phe Val  
               85                 90                 95  
 Ala Ser Ile Asp Ala Thr Tyr Ala Lys Gln Tyr Glu Glu Phe Tyr Val  
               100                105                110  
 Gly Leu Glu Gly Ser Phe Gly Ser Lys His Val Ser Pro Arg Thr Leu  
               115                120                125  
 Thr Ser Cys Phe Leu Ser Cys Val Val Cys Val Glu Gly Ile Val Lys  
               130                135                140  
 Cys Ser Leu Val Arg Pro Lys Val Val Arg Ser Val His Tyr Cys Pro  
               145                150                155                 160  
 Ala Thr Lys Lys Thr Ile Glu Arg Arg Tyr Ser Asp Leu Thr Thr Leu  
               165                170                175  
 Val Ala Phe Pro Ser Ser Val Tyr Pro Thr Lys Asp Glu Glu Asn  
               180                185                190

Asn Pro Leu Glu Thr Glu Tyr Gly Leu Ser Val Tyr Lys Asp His Gln  
     195                 200                 205  
 Thr Ile Thr Ile Gln Glu Met Pro Glu Lys Ala Pro Ala Gly Gln Leu  
     210                 215                 220  
 Pro Arg Ser Val Asp Val Ile Leu Asp Asp Asp Leu Val Asp Lys Ala  
     225                 230                 235                 240  
 Lys Pro Gly Asp Arg Val Gln Val Val Gly Thr Tyr Arg Cys Leu Pro  
     245                 250                 255  
 Gly Lys Lys Gly Gly Tyr Thr Ser Gly Thr Phe Arg Thr Val Leu Ile  
     260                 265                 270  
 Ala Cys Asn Val Lys Gln Met Ser Lys Asp Ala Gln Pro Ser Phe Ser  
     275                 280                 285  
 Ala Glu Asp Ile Ala Lys Ile Lys Lys Phe Ser Lys Thr Arg Ser Lys  
     290                 295                 300  
 Asp Ile Phe Asp Gln Leu Ala Lys Ser Leu Ala Pro Ser Ile His Gly  
     305                 310                 315                 320  
 His Asp Tyr Val Lys Lys Ala Ile Leu Cys Leu Leu Leu Gly Gly Val  
     325                 330                 335  
 Glu Arg Asp Leu Glu Asn Gly Ser His Ile Arg Gly Asp Ile Asn Ile  
     340                 345                 350  
 Leu Leu Ile Gly Asp Pro Ser Val Ala Lys Ser Gln Leu Leu Arg Tyr  
     355                 360                 365  
 Val Leu Cys Thr Ala Pro Arg Ala Ile Pro Thr Thr Gly Arg Gly Ser  
     370                 375                 380  
 Ser Gly Val Gly Leu Thr Ala Ala Val Thr Thr Asp Gln Glu Thr Gly  
     385                 390                 395                 400  
 Glu Arg Arg Leu Glu Ala Gly Ala Met Val Leu Ala Asp Arg Gly Val  
     405                 410                 415  
 Val Cys Ile Asp Glu Phe Asp Lys Met Ser Asp Met Asp Arg Thr Ala  
     420                 425                 430  
 Ile His Glu Val Met Glu Gln Gly Arg Val Thr Ile Ala Lys Ala Gly  
     435                 440                 445  
 Ile His Ala Arg Leu Asn Ala Arg Cys Ser Val Leu Ala Ala Ala Asn  
     450                 455                 460  
 Pro Val Tyr Gly Arg Tyr Asp Gln Tyr Lys Thr Pro Met Glu Asn Ile  
     465                 470                 475                 480  
 Gly Leu Gln Asp Ser Leu Leu Ser Arg Phe Asp Leu Leu Phe Ile Met  
     485                 490                 495  
 Leu Asp Gln Met Asp Pro Glu Gln Asp Arg Glu Ile Ser Asp His Val  
     500                 505                 510  
 Leu Arg Met His Arg Tyr Arg Ala Pro Gly Glu Gln Asp Gly Asp Ala  
     515                 520                 525  
 Met Pro Leu Gly Ser Ala Val Asp Ile Leu Ala Thr Asp Asp Pro Asn  
     530                 535                 540  
 Phe Ser Gln Glu Asp Gln Gln Asp Thr Gln Ile Tyr Glu Lys His Asp  
     545                 550                 555                 560  
 Asn Leu Leu His Gly Thr Lys Lys Lys Glu Lys Lys Met Val Ser Ala  
     565                 570                 575  
 Ala Phe Met Lys Lys Tyr Ile His Val Ala Lys Ile Ile Lys Pro Val  
     580                 585                 590  
 Leu Thr Gln Glu Ser Ala Thr Tyr Ile Ala Glu Glu Tyr Ser Arg Leu  
     595                 600                 605  
 Arg Ser Gln Asp Ser Met Ser Ser Asp Thr Ala Arg Thr Ser Pro Val  
     610                 615                 620

Thr Ala Arg Thr Leu Glu Thr Leu Ile Arg Leu Ala Thr Ala His Ala  
 625 630 635 640  
 Lys Ala Arg Met Ser Lys Thr Val Asp Leu Gln Asp Ala Glu Glu Ala  
 645 650 655  
 Val Glu Leu Val Gln Tyr Ala Tyr Phe Lys Lys Val Leu Glu Lys Glu  
 660 665 670  
 Lys Lys Arg Lys Lys Arg Ser Glu Asp Glu Ser Glu Thr Glu Asp Glu  
 675 680 685  
 Glu Glu Lys Ser Gln Glu Asp Gln Glu Gln Lys Arg Lys Arg Arg Lys  
 690 695 700  
 Thr Arg Gln Pro Asp Ala Lys Asp Gly Asp Ser Tyr Asp Pro Tyr Asp  
 705 710 715 720  
 Phe Ser Asp Thr Glu Glu Glu Met Pro Gln Val His Thr Pro Lys Thr  
 725 730 735  
 Ala Asp Ser Gln Glu Thr Lys Glu Ser Gln Lys Val Glu Leu Ser Glu  
 740 745 750  
 Ser Arg Leu Lys Ala Phe Lys Val Ala Leu Leu Asp Val Phe Arg Glu  
 755 760 765  
 Ala His Ala Gln Ser Ile Gly Met Asn Arg Leu Thr Glu Ser Ile Asn  
 770 775 780  
 Arg Asp Ser Glu Glu Pro Phe Ser Ser Val Glu Ile Gln Ala Ala Leu  
 785 790 795 800  
 Ser Lys Met Gln Asp Asp Asn Gln Val Met Val Ser Glu Gly Ile Ile  
 805 810 815  
 Phe Leu Ile

<210> 426  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 426  
 Glu Pro Arg Gly Ser Arg Ala Arg Phe Gly Cys Trp Arg Leu Gln Pro  
 5 10 15  
 Glu Phe Lys Pro Lys Gln Leu Glu Gly Thr Met Ala Asn Cys Glu Arg  
 20 25 30  
 Thr Phe Ile Ala Ile Lys Pro Asp Gly Val Gln Arg Gly Leu Val Gly  
 35 40 45  
 Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly Phe Arg Leu Val Gly Leu  
 50 55 60  
 Lys Phe Met Gln Ala Ser Glu Asp Leu Leu Lys Glu His Tyr Val Asp  
 65 70 75 80  
 Leu Lys Asp Arg Pro Phe Phe Ala Gly Leu Val Lys Tyr Met His Ser  
 85 90 95  
 Gly Pro Val Val Ala Met Val Trp Glu Gly Leu Asn Val Val Lys Thr  
 100 105 110  
 Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp Ser Lys Pro Gly  
 115 120 125  
 Thr Ile Arg Gly Asp Phe Cys Ile Gln Val Gly Arg Asn Ile Ile His  
 130 135 140  
 Gly Ser Asp Ser Val Glu Ser Ala Glu Lys Glu Ile Gly Leu Trp Phe  
 145 150 155 160  
 His Pro Glu Glu Leu Val Asp Tyr Thr Ser Cys Ala Gln Asn Trp Ile

165  
Tyr Glu

170

175

<210> 427  
<211> 570  
<212> PRT  
<213> Homo sapiens

<400> 427  
Thr Glu Arg Ser Ala Leu Asp Val Lys Leu Lys His Ala Arg Asn Gln  
5 10 15  
Val Asp Val Glu Ile Lys Arg Arg Gln Arg Ala Glu Ala Asp Cys Glu  
20 25 30  
Lys Leu Glu Arg Gln Ile Gln Leu Ile Arg Glu Met Leu Met Cys Asp  
35 40 45  
Thr Ser Gly Ser Ile Gln Leu Ser Glu Glu Gln Lys Ser Ala Leu Ala  
50 55 60  
Phe Leu Asn Arg Gly Gln Pro Ser Ser Asn Ala Gly Asn Lys Arg  
65 70 75 80  
Leu Ser Thr Ile Asp Glu Ser Gly Ser Ile Leu Ser Asp Ile Ser Phe  
85 90 95  
Asp Lys Thr Asp Glu Ser Leu Asp Trp Asp Ser Ser Leu Val Lys Thr  
100 105 110  
Phe Lys Leu Lys Lys Arg Glu Lys Arg Arg Ser Thr Ser Arg Gln Phe  
115 120 125  
Val Asp Gly Pro Pro Gly Pro Val Lys Lys Thr Arg Ser Ile Gly Ser  
130 135 140  
Ala Val Asp Gln Gly Asn Glu Ser Ile Val Ala Lys Thr Thr Val Thr  
145 150 155 160  
Val Pro Asn Asp Gly Gly Pro Ile Glu Ala Val Ser Thr Ile Glu Thr  
165 170 175  
Val Pro Tyr Trp Thr Arg Ser Arg Arg Lys Thr Gly Thr Leu Gln Pro  
180 185 190  
Trp Asn Ser Asp Ser Thr Leu Asn Ser Arg Gln Leu Glu Pro Arg Thr  
195 200 205  
Glu Thr Asp Ser Val Gly Thr Pro Gln Ser Asn Gly Gly Met Arg Leu  
210 215 220  
His Asp Phe Val Ser Lys Thr Val Ile Lys Pro Glu Ser Cys Val Pro  
225 230 235 240  
Cys Gly Lys Arg Ile Lys Phe Gly Lys Leu Ser Leu Lys Cys Arg Asp  
245 250 255  
Cys Arg Val Val Ser His Pro Glu Cys Arg Asp Arg Cys Pro Leu Pro  
260 265 270  
Cys Ile Pro Thr Leu Ile Gly Thr Pro Val Lys Ile Gly Glu Gly Met  
275 280 285  
Leu Ala Asp Phe Val Ser Gln Thr Ser Pro Met Ile Pro Ser Ile Val  
290 295 300  
Val His Cys Val Asn Glu Ile Glu Gln Arg Gly Leu Thr Glu Thr Gly  
305 310 315 320  
Leu Tyr Arg Ile Ser Gly Cys Asp Arg Thr Val Lys Glu Leu Lys Glu  
325 330 335  
Lys Phe Leu Arg Val Lys Thr Val Pro Leu Leu Ser Lys Val Asp Asp  
340 345 350

Ile His Ala Ile Cys Ser Leu Leu Lys Asp Phe Leu Arg Asn Leu Lys  
 355 360 365  
 Glu Pro Leu Leu Thr Phe Arg Leu Asn Arg Ala Phe Met Glu Ala Ala  
 370 375 380  
 Glu Ile Thr Asp Glu Asp Asn Ser Ile Ala Ala Met Tyr Gln Ala Val  
 385 390 395 400  
 Gly Glu Leu Pro Gln Ala Asn Arg Asp Thr Leu Ala Phe Leu Met Ile  
 405 410 415  
 His Leu Gln Arg Val Ala Gln Ser Pro His Thr Lys Met Asp Val Ala  
 420 425 430  
 Asn Leu Ala Lys Val Phe Gly Pro Thr Ile Val Ala His Ala Val Pro  
 435 440 445  
 Asn Pro Asp Pro Val Thr Met Leu Gln Asp Ile Lys Arg Gln Pro Lys  
 450 455 460  
 Val Val Glu Arg Leu Leu Ser Leu Pro Leu Glu Tyr Trp Ser Gln Phe  
 465 470 475 480  
 Met Met Val Glu Gln Glu Asn Ile Asp Pro Leu His Val Ile Glu Asn  
 485 490 495  
 Ser Asn Ala Phe Ser Thr Pro Gln Thr Pro Asp Ile Lys Val Ser Leu  
 500 505 510  
 Leu Gly Pro Val Thr Thr Pro Glu His Gln Leu Leu Lys Thr Pro Ser  
 515 520 525  
 Ser Ser Ser Leu Ser Gln Arg Val Arg Ser Thr Leu Thr Lys Asn Thr  
 530 535 540  
 Pro Arg Phe Gly Ser Lys Ser Lys Ser Ala Thr Asn Leu Gly Arg Gln  
 545 550 555 560  
 Gly Asn Phe Phe Ala Ser Pro Met Leu Lys  
 565 570

<210> 428  
 <211> 532  
 <212> PRT  
 <213> Homo sapiens

<400> 428  
 Leu Leu Asp Ala Gly Pro Gln Phe Pro Ala Ile Gly Val Gly Ser Phe  
 5 10 15  
 Ala Arg His His His Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala  
 20 25 30  
 Glu Met Gln Asp Arg Glu Leu Ser Leu Ala Ala Ala Gln Asn Gly Phe  
 35 40 45  
 Val Asp Ser Ala Ala Ala His Met Gly Ala Phe Lys Leu Asn Pro Gly  
 50 55 60  
 Ala His Glu Leu Ser Pro Gly Gln Ser Ser Ala Phe Thr Ser Gln Gly  
 65 70 75 80  
 Pro Gly Ala Tyr Pro Gly Ser Ala Ala Ala Ala Ala Ala Ala Ala  
 85 90 95  
 Leu Gly Pro His Ala Ala His Val Gly Ser Tyr Ser Gly Pro Pro Phe  
 100 105 110  
 Asn Ser Thr Arg Asp Phe Leu Phe Arg Ser Ala Arg Leu Pro Gly Thr  
 115 120 125  
 Ser Ala Pro Gly Gly Gln His Gly Leu Phe Gly Pro Gly Ala Gly  
 130 135 140  
 Gly Leu His His Ala His Ser Asp Ala Gln Gly His Leu Leu Phe Pro

|   |             |                     |         |
|---|-------------|---------------------|---------|
| 145   | 150         | 155                 | 160     |
| Gly Leu Pro Glu Gln His                             | Gly Pro His | Gly Ser Gln Asn Val | Leu Asn |
| 165   | 170         | 175                 |         |
| Gly Gln Met Arg Leu Gly Leu Pro Gly Glu Val Phe     | Gly Arg Ser | Glu                 |         |
| 180   | 185         | 190                 |         |
| Gln Tyr Arg Gln Val Ala Ser Pro Arg Thr Asp Pro     | Tyr Ser Ala | Ala                 |         |
| 195   | 200         | 205                 |         |
| Gln Leu His Asn Gln Tyr Gly Pro Met Asn Met Asn     | Gly Met Asn |                     |         |
| 210   | 215         | 220                 |         |
| Met Ala Ala Ala Ala His His His His His His His     | His Pro     |                     |         |
| 225   | 230         | 235                 | 240     |
| Gly Ala Phe Phe Arg Tyr Met Arg Gln Gln Cys Ile Lys | Gln Glu Leu |                     |         |
| 245   | 250         | 255                 |         |
| Ile Cys Lys Trp Ile Asp Pro Glu Gln Leu Ser Asn Pro | Lys Lys Ser |                     |         |
| 260   | 265         | 270                 |         |
| Cys Asn Lys Thr Phe Ser Thr Met His Glu Leu Val Thr | His Val Ser |                     |         |
| 275   | 280         | 285                 |         |
| Val Glu His Val Gly Gly Pro Glu Gln Ser Asn His Val | Cys Phe Trp |                     |         |
| 290   | 295         | 300                 |         |
| Glu Glu Cys Pro Arg Glu Gly Lys Pro Phe Lys Ala Lys | Tyr Lys Leu |                     |         |
| 305   | 310         | 315                 | 320     |
| Val Asn His Ile Arg Val His Thr Gly Glu Lys Pro Phe | Pro Cys Pro |                     |         |
| 325   | 330         | 335                 |         |
| Phe Pro Gly Cys Gly Lys Val Phe Ala Arg Ser Glu Asn | Leu Lys Ile |                     |         |
| 340   | 345         | 350                 |         |
| His Lys Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys | Glu Phe Glu |                     |         |
| 355   | 360         | 365                 |         |
| Gly Cys Asp Arg Arg Phe Ala Asn Ser Ser Asp Arg Lys | Lys His Met |                     |         |
| 370   | 375         | 380                 |         |
| His Val His Thr Ser Asp Lys Pro Tyr Leu Cys Lys Met | Cys Asp Lys |                     |         |
| 385   | 390         | 395                 | 400     |
| Ser Tyr Thr His Pro Ser Ser Leu Arg Lys His Met Lys | Val His Glu |                     |         |
| 405   | 410         | 415                 |         |
| Ser Ser Pro Gln Gly Ser Glu Ser Ser Pro Ala Ala Ser | Ser Gly Tyr |                     |         |
| 420   | 425         | 430                 |         |
| Glu Ser Ser Thr Pro Pro Gly Leu Val Ser Pro Ser Ala | Glu Pro Gln |                     |         |
| 435   | 440         | 445                 |         |
| Ser Ser Ser Asn Leu Ser Pro Ala Ala Ala Ala Ala Ala | Ala         |                     |         |
| 450   | 455         | 460                 |         |
| Ala Ala Ala Ala Ala Ala Val Ser Ala Val His Arg Gly | Gly Ser     |                     |         |
| 465   | 470         | 475                 | 480     |
| Gly Ser Gly Gly Ala Gly Gly Ser Gly Gly Ser Gly Ser | Gly         |                     |         |
| 485   | 490         | 495                 |         |
| Gly Gly Gly Gly Ala Gly Gly Gly Gly Ser Ser Gly Gly |             |                     |         |
| 500   | 505         | 510                 |         |
| Gly Ser Gly Thr Ala Gly Gly His Ser Gly Leu Ser Ser | Asn Phe Asn |                     |         |
| 515   | 520         | 525                 |         |
| Glu Trp Tyr Val                                     |             |                     |         |
| 530   |             |                     |         |

&lt;210&gt; 429

&lt;211&gt; 629

&lt;212&gt; PRT

<213> Homo sapiens

429

Gly Gly Ala Pro Ala Ser Phe Pro Gly Arg Ala Pro Arg Ser Leu Ala  
                   5                         10                         15  
 Ser Gln Pro Ala Ala Arg Ala Ala Ala Pro Ala Met Pro Ser Ala  
                   20                         25                         30  
 Lys Gln Arg Gly Ser Lys Gly Gly His Gly Ala Ala Ser Pro Ser Glu  
                   35                         40                         45  
 Lys Gly Ala His Pro Ser Gly Gly Ala Asp Asp Val Ala Lys Lys Pro  
                   50                         55                         60  
 Pro Pro Ala Pro Gln Gln Pro Pro Pro Pro Pro Ala Pro His Pro Gln  
                   65                         70                         75                         80  
 Gln His Pro Gln Gln His Pro Gln Asn Gln Ala His Gly Lys Gly Gly  
                   85                         90                         95  
 His Arg Gly Gly Gly Gly Gly Lys Ser Ser Ser Ser Ser Ser Ser  
                   100                         105                         110  
 Ala Ser Ala Ala Ala Ala Ala Ala Ser Ser Ser Ala Ser Cys  
                   115                         120                         125  
 Ser Arg Arg Leu Gly Arg Ala Leu Asn Phe Leu Phe Tyr Leu Ala Leu  
                   130                         135                         140  
 Val Ala Ala Ala Ala Phe Ser Gly Trp Cys Val His His Val Leu Glu  
                   145                         150                         155                         160  
 Glu Val Gln Gln Val Arg Arg Ser His Gln Asp Phe Ser Arg Gln Arg  
                   165                         170                         175  
 Glu Glu Leu Gly Gln Gly Leu Gln Gly Val Glu Gln Lys Val Gln Ser  
                   180                         185                         190  
 Leu Gln Ala Thr Phe Gly Thr Phe Glu Ser Ile Leu Arg Ser Ser Gln  
                   195                         200                         205  
 His Lys Gln Asp Leu Thr Glu Lys Ala Val Lys Gln Gly Glu Ser Glu  
                   210                         215                         220  
 Val Ser Arg Ile Ser Glu Val Leu Gln Lys Leu Gln Asn Glu Ile Leu  
                   225                         230                         235                         240  
 Lys Asp Leu Ser Asp Gly Ile His Val Val Lys Asp Ala Arg Glu Arg  
                   245                         250                         255  
 Asp Phe Thr Ser Leu Glu Asn Thr Val Glu Glu Arg Leu Thr Glu Leu  
                   260                         265                         270  
 Thr Lys Ser Ile Asn Asp Asn Ile Ala Ile Phe Thr Glu Val Gln Lys  
                   275                         280                         285  
 Arg Ser Gln Lys Glu Ile Asn Asp Met Lys Ala Lys Val Ala Ser Leu  
                   290                         295                         300  
 Glu Glu Ser Glu Gly Asn Lys Gln Asp Leu Lys Ala Leu Lys Glu Ala  
                   305                         310                         315                         320  
 Val Lys Glu Ile Gln Thr Ser Ala Lys Ser Arg Glu Trp Asp Met Glu  
                   325                         330                         335  
 Ala Leu Arg Ser Thr Leu Gln Thr Met Glu Ser Asp Ile Tyr Thr Glu  
                   340                         345                         350  
 Val Arg Glu Leu Val Ser Leu Lys Gln Glu Gln Gln Ala Phe Lys Glu  
                   355                         360                         365  
 Ala Ala Asp Thr Glu Arg Leu Ala Leu Gln Ala Leu Thr Glu Lys Leu  
                   370                         375                         380  
 Leu Arg Ser Glu Glu Ser Val Ser Arg Leu Pro Glu Glu Ile Arg Arg  
                   385                         390                         395                         400  
 Leu Glu Glu Glu Leu Arg Gln Leu Lys Ser Asp Ser His Gly Pro Lys

|   |     |     |     |
|---|-----|-----|-----|
|   | 405 | 410 | 415 |
| Glu Asp Gly Gly Phe Arg His Ser Glu Ala Phe Glu Ala Leu Gln Gln |     |     |     |
| 420   | 425 | 430 |     |
| Lys Ser Gln Gly Leu Asp Ser Arg Leu Gln His Val Glu Asp Gly Val |     |     |     |
| 435   | 440 | 445 |     |
| Leu Ser Met Gln Val Ala Ser Ala Arg Gln Thr Glu Ser Leu Glu Ser |     |     |     |
| 450   | 455 | 460 |     |
| Leu Leu Ser Lys Ser Gln Glu His Glu Gln Arg Leu Ala Pro Ala Gly |     |     |     |
| 465   | 470 | 475 | 480 |
| Ala Leu Glu Gly Leu Gly Ser Ser Glu Ala Asp Gln Asp Gly Leu Ala |     |     |     |
| 485   | 490 | 495 |     |
| Ser Thr Val Arg Ser Leu Gly Glu Thr Gln Leu Val Leu Tyr Gly Asp |     |     |     |
| 500   | 505 | 510 |     |
| Val Glu Glu Leu Lys Arg Ser Val Gly Glu Leu Pro Ser Thr Val Glu |     |     |     |
| 515   | 520 | 525 |     |
| Ser Leu Gln Lys Val Gln Glu Gln Val His Thr Leu Leu Ser Gln Asp |     |     |     |
| 530   | 535 | 540 |     |
| Gln Ala Gln Ala Ala Arg Leu Pro Pro Gln Asp Phe Leu Asp Arg Leu |     |     |     |
| 545   | 550 | 555 | 560 |
| Ser Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln Val Glu Ala Asp |     |     |     |
| 565   | 570 | 575 |     |
| Leu Lys Met Leu Arg Thr Ala Val Asp Ser Leu Val Ala Tyr Ser Val |     |     |     |
| 580   | 585 | 590 |     |
| Lys Ile Glu Thr Asn Glu Asn Asn Leu Glu Ser Ala Lys Gly Leu Leu |     |     |     |
| 595   | 600 | 605 |     |
| Asp Asp Leu Arg Asn Asp Leu Asp Arg Leu Phe Val Lys Val Glu Lys |     |     |     |
| 610   | 615 | 620 |     |
| Ile His Glu Lys Val   |     |     |     |
| 625   |     |     |     |

<210> 430

<211> 147

<212> PRT

<213> Homo sapiens

<400> 430

|   |     |     |    |
|---|-----|-----|----|
| Pro Gln Trp Cys Pro Arg Ser Gln Ala Arg Ser Ser Ala Ala Ala Ala |     |     |    |
| 5   | 10  | 15  |    |
| Ala Arg Ala Ser Val Pro Leu Arg Gly Ser Pro Gly Pro Ser Ala Ile |     |     |    |
| 20  | 25  | 30  |    |
| Met Pro Met Phe Ile Val Asn Thr Asn Val Pro Arg Ala Ser Val Pro |     |     |    |
| 35  | 40  | 45  |    |
| Asp Gly Phe Leu Ser Glu Leu Thr Gln Gln Leu Ala Gln Ala Thr Gly |     |     |    |
| 50  | 55  | 60  |    |
| Lys Pro Pro Gln Tyr Ile Ala Val His Val Val Pro Asp Gln Leu Met |     |     |    |
| 65  | 70  | 75  | 80 |
| Ala Phe Gly Gly Ser Ser Glu Pro Cys Ala Leu Cys Ser Leu His Ser |     |     |    |
| 85  | 90  | 95  |    |
| Ile Gly Lys Ile Gly Gly Ala Gln Asn Arg Ser Tyr Ser Lys Leu Leu |     |     |    |
| 100   | 105 | 110 |    |
| Cys Gly Leu Leu Ala Glu Arg Leu Arg Ile Ser Pro Asp Arg Val Tyr |     |     |    |
| 115   | 120 | 125 |    |
| Ile Asn Tyr Tyr Asp Met Asn Ala Ala Asn Val Gly Trp Asn Asn Ser |     |     |    |

130  
Thr Phe Ala  
145

135

140

<210> 431  
<211> 775  
<212> PRT  
<213> *Homo sapiens*

| 340   | 345                         | 350 |
|---|-----------------------------|-----|
| Ile Val Asp Leu Asp Asn Val Val Lys                             | Lys Val Gln Ala Ala Gln Ser |     |
| 355   | 360                         | 365 |
| Glu Ala Lys Val Val Ser Gln Tyr His Glu Leu Val Val Gln Ala Arg |                             |     |
| 370   | 375                         | 380 |
| Asp Asp Phe Lys Arg Glu Leu Asp Ser Ile Thr Pro Glu Val Leu Pro |                             |     |
| 385   | 390                         | 395 |
| Gly Trp Lys Gly Met Ser Val Ser Asp Leu Ala Asp Lys Leu Ser Thr |                             |     |
| 405   | 410                         | 415 |
| Asp Asp Leu Asn Ser Leu Ile Ala His Ala His Arg Arg Ile Asp Gln |                             |     |
| 420   | 425                         | 430 |
| Leu Asn Arg Glu Leu Ala Glu Gln Lys Ala Thr Glu Lys Gln His Ile |                             |     |
| 435   | 440                         | 445 |
| Thr Leu Ala Leu Glu Lys Gln Lys Leu Glu Glu Lys Arg Ala Phe Asp |                             |     |
| 450   | 455                         | 460 |
| Ser Ala Val Ala Lys Ala Leu Glu His His Arg Ser Glu Ile Gln Ala |                             |     |
| 465   | 470                         | 475 |
| Glu Gln Asp Arg Lys Ile Glu Glu Val Arg Asp Ala Met Glu Asn Glu |                             |     |
| 485   | 490                         | 495 |
| Met Arg Thr Gln Leu Arg Arg Gln Ala Ala Ala His Thr Asp His Leu |                             |     |
| 500   | 505                         | 510 |
| Arg Asp Val Leu Arg Val Gln Glu Gln Glu Leu Lys Ser Glu Phe Glu |                             |     |
| 515   | 520                         | 525 |
| Gln Asn Leu Ser Glu Lys Leu Ser Glu Gln Glu Leu Gln Phe Arg Arg |                             |     |
| 530   | 535                         | 540 |
| Leu Ser Gln Glu Gln Val Asp Asn Phe Thr Leu Asp Ile Asn Thr Ala |                             |     |
| 545   | 550                         | 555 |
| Tyr Ala Arg Leu Arg Gly Ile Glu Gln Ala Val Gln Ser His Ala Val |                             |     |
| 565   | 570                         | 575 |
| Ala Glu Glu Ala Arg Lys Ala His Gln Leu Trp Leu Ser Val Glu     |                             |     |
| 580   | 585                         | 590 |
| Ala Leu Lys Tyr Ser Met Lys Thr Ser Ser Ala Glu Thr Pro Thr Ile |                             |     |
| 595   | 600                         | 605 |
| Pro Leu Gly Ser Ala Val Glu Ala Ile Lys Ala Asn Cys Ser Asp Asn |                             |     |
| 610   | 615                         | 620 |
| Glu Phe Thr Gln Ala Leu Thr Ala Ala Ile Pro Pro Glu Ser Leu Thr |                             |     |
| 625   | 630                         | 635 |
| Arg Gly Val Tyr Ser Glu Glu Thr Leu Arg Ala Arg Phe Tyr Ala Val |                             |     |
| 645   | 650                         | 655 |
| Gln Lys Leu Ala Arg Arg Val Ala Met Ile Asp Glu Thr Arg Asn Ser |                             |     |
| 660   | 665                         | 670 |
| Leu Tyr Gln Tyr Phe Leu Ser Tyr Leu Gln Ser Leu Leu Leu Phe Pro |                             |     |
| 675   | 680                         | 685 |
| Pro Gln Gln Leu Lys Pro Pro Pro Glu Leu Cys Pro Glu Asp Ile Asn |                             |     |
| 690   | 695                         | 700 |
| Thr Phe Lys Leu Leu Ser Tyr Ala Ser Tyr Cys Ile Glu His Gly Asp |                             |     |
| 705   | 710                         | 715 |
| Leu Glu Leu Ala Ala Lys Phe Val Asn Gln Leu Lys Gly Glu Ser Arg |                             |     |
| 725   | 730                         | 735 |
| Arg Val Ala Gln Asp Trp Leu Lys Glu Ala Arg Met Thr Leu Glu Thr |                             |     |
| 740   | 745                         | 750 |
| Lys Gln Ile Val Glu Ile Leu Thr Ala Tyr Ala Ser Ala Val Gly Ile |                             |     |
| 755   | 760                         | 765 |
| Gly Thr Thr Gln Val Gln Pro                                     |                             |     |

770

775

<210> 432  
<211> 741  
<212> PRT  
<213> Homo sapiens

<400> 432

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Lys | Arg | Leu | Arg | Thr | Gly | Asn | Met | Val | Arg | Ser | Gly | Asn | Lys |
| 5   |     |     |     |     |     |     |     |     | 10  |     |     |     |     |     | 15  |
| Ala | Ala | Val | Val | Leu | Cys | Met | Asp | Val | Gly | Phe | Thr | Met | Ser | Asn | Ser |
| 20  |     |     |     |     |     |     |     | 25  |     |     |     |     |     |     | 30  |
| Ile | Pro | Gly | Ile | Glu | Ser | Pro | Phe | Glu | Gln | Ala | Lys | Lys | Val | Ile | Thr |
| 35  |     |     |     |     |     |     |     | 40  |     |     |     |     |     |     | 45  |
| Met | Phe | Val | Gln | Arg | Gln | Val | Phe | Ala | Glu | Asn | Lys | Asp | Glu | Ile | Ala |
| 50  |     |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Val | Leu | Phe | Gly | Thr | Asp | Gly | Thr | Asp | Asn | Pro | Leu | Ser | Gly | Gly |
| 65  |     |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Gln | Tyr | Gln | Asn | Ile | Thr | Val | His | Arg | His | Leu | Met | Leu | Pro | Asp |
| 85  |     |     |     |     |     |     |     | 90  |     |     |     |     |     |     | 95  |
| Phe | Asp | Leu | Leu | Glu | Asp | Ile | Glu | Ser | Lys | Ile | Gln | Pro | Gly | Ser | Gln |
| 100 |     |     |     |     |     |     |     | 105 |     |     |     |     |     |     | 110 |
| Gln | Ala | Asp | Phe | Leu | Asp | Ala | Leu | Ile | Val | Ser | Met | Asp | Val | Ile | Gln |
| 115 |     |     |     |     |     |     |     | 120 |     |     |     |     |     |     | 125 |
| His | Glu | Thr | Ile | Gly | Lys | Lys | Phe | Glu | Lys | Arg | His | Ile | Glu | Ile | Phe |
| 130 |     |     |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Thr | Asp | Leu | Ser | Ser | Arg | Phe | Ser | Lys | Ser | Gln | Leu | Asp | Ile | Ile | Ile |
| 145 |     |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |
| His | Ser | Leu | Lys | Lys | Cys | Asp | Ile | Ser | Leu | Gln | Phe | Phe | Leu | Pro | Phe |
| 165 |     |     |     |     |     |     |     | 170 |     |     |     |     |     |     | 175 |
| Ser | Leu | Gly | Lys | Glu | Asp | Gly | Ser | Gly | Asp | Arg | Gly | Asp | Gly | Pro | Phe |
| 180 |     |     |     |     |     |     |     | 185 |     |     |     |     |     |     | 190 |
| Arg | Leu | Gly | Gly | His | Gly | Pro | Ser | Phe | Pro | Leu | Lys | Gly | Ile | Thr | Glu |
| 195 |     |     |     |     |     |     |     | 200 |     |     |     |     |     |     | 205 |
| Gln | Gln | Lys | Glu | Gly | Leu | Glu | Ile | Val | Lys | Met | Val | Met | Ile | Ser | Leu |
| 210 |     |     |     |     |     |     |     | 215 |     |     |     |     |     |     | 220 |
| Glu | Gly | Glu | Asp | Gly | Leu | Asp | Glu | Ile | Tyr | Ser | Phe | Ser | Glu | Ser | Leu |
| 225 |     |     |     |     |     |     |     | 230 |     |     |     |     |     |     | 240 |
| Arg | Lys | Leu | Cys | Val | Phe | Lys | Lys | Ile | Glu | Arg | His | Ser | Ile | His | Trp |
| 245 |     |     |     |     |     |     |     |     | 250 |     |     |     |     |     | 255 |
| Pro | Cys | Arg | Leu | Thr | Ile | Gly | Ser | Asn | Leu | Ser | Ile | Arg | Ile | Ala | Ala |
| 260 |     |     |     |     |     |     |     | 265 |     |     |     |     |     |     | 270 |
| Tyr | Lys | Ser | Ile | Leu | Gln | Glu | Arg | Val | Lys | Lys | Thr | Trp | Thr | Val | Val |
| 275 |     |     |     |     |     |     |     | 280 |     |     |     |     |     |     | 285 |
| Asp | Ala | Lys | Thr | Leu | Lys | Lys | Glu | Asp | Ile | Gln | Lys | Glu | Thr | Val | Tyr |
| 290 |     |     |     |     |     |     |     | 295 |     |     |     |     |     |     | 300 |
| Cys | Leu | Asn | Asp | Asp | Asp | Glu | Thr | Glu | Val | Leu | Lys | Glu | Asp | Ile | Ile |
| 305 |     |     |     |     |     |     |     | 310 |     |     |     | 315 |     |     | 320 |
| Gln | Gly | Phe | Arg | Tyr | Gly | Ser | Asp | Ile | Val | Pro | Phe | Ser | Lys | Val | Asp |
| 325 |     |     |     |     |     |     |     |     | 330 |     |     |     |     |     | 335 |
| Glu | Glu | Gln | Met | Lys | Tyr | Lys | Ser | Glu | Gly | Lys | Cys | Phe | Ser | Val | Leu |
| 340 |     |     |     |     |     |     |     | 345 |     |     |     |     |     |     | 350 |
| Gly | Phe | Cys | Lys | Ser | Ser | Gln | Val | Gln | Arg | Arg | Phe | Phe | Met | Gly | Asn |

| 355   | 360                         | 365             |
|---|-----------------------------|-----------------|
| Gln Val Leu Lys Val Phe Ala                             | Ala Arg Asp Asp Glu         | Ala Ala Ala Val |
| 370   | 375                         | 380             |
| Ala Leu Ser Ser Leu Ile His                             | Ala Leu Asp Asp Leu Asp Met | Val Ala         |
| 385   | 390                         | 395 400         |
| Ile Val Arg Tyr Ala Tyr Asp Lys Arg Ala Asn Pro Gln     | Val Gly Val                 |                 |
| 405   | 410                         | 415             |
| Ala Phe Pro His Ile Lys His Asn Tyr Glu Cys Leu Val     | Tyr Val Gln                 |                 |
| 420   | 425                         | 430             |
| Leu Pro Phe Met Glu Asp Leu Arg Gln Tyr Met Phe Ser     | Ser Leu Lys                 |                 |
| 435   | 440                         | 445             |
| Asn Ser Lys Lys Tyr Ala Pro Thr Glu Ala Gln             | Leu Asn Ala Val Asp         |                 |
| 450   | 455                         | 460             |
| Ala Leu Ile Asp Ser Met Ser Leu Ala Lys                 | Lys Asp Glu Lys Thr Asp     |                 |
| 465   | 470                         | 475 480         |
| Thr Leu Glu Asp Leu Phe Pro Thr Thr Lys Ile Pro Asn Pro | Arg Phe                     |                 |
| 485   | 490                         | 495             |
| Gln Arg Leu Phe Gln Cys Leu Leu His Arg Ala Leu His     | Pro Arg Glu                 |                 |
| 500   | 505                         | 510             |
| Pro Leu Pro Pro Ile Gln Gln His Ile Trp Asn Met         | Leu Asn Pro Pro             |                 |
| 515   | 520                         | 525             |
| Ala Glu Val Thr Thr Lys Ser Gln Ile Pro Leu Ser         | Lys Ile Lys Thr             |                 |
| 530   | 535                         | 540             |
| Leu Phe Pro Leu Ile Glu Ala Lys Lys Asp Gln Val Thr Ala | Gln                         |                 |
| 545   | 550                         | 555 560         |
| Glu Ile Phe Gln Asp Asn His Glu Asp Gly Pro Thr Ala     | Lys Leu                     |                 |
| 565   | 570                         | 575             |
| Lys Thr Glu Gln Gly Gly Ala His Phe Ser Val Ser         | Ser Leu Ala Glu             |                 |
| 580   | 585                         | 590             |
| Gly Ser Val Thr Ser Val Gly Ser Val Asn Pro Ala Glu     | Asn Phe Arg                 |                 |
| 595   | 600                         | 605             |
| Val Leu Val Lys Gln Lys Lys Ala Ser Phe Glu Glu         | Ala Ser Asn Gln             |                 |
| 610   | 615                         | 620             |
| Leu Ile Asn His Ile Glu Gln Phe Leu Asp Thr Asn Glu     | Thr Pro Tyr                 |                 |
| 625   | 630                         | 635 640         |
| Phe Met Lys Ser Ile Asp Cys Ile Arg Ala Phe Arg Glu     | Glu Ala Ile                 |                 |
| 645   | 650                         | 655             |
| Lys Phe Ser Glu Glu Gln Arg Phe Asn Asn Phe Leu Lys     | Ala Leu Gln                 |                 |
| 660   | 665                         | 670             |
| Glu Lys Val Glu Ile Lys Gln Leu Asn His Phe Trp Glu     | Ile Val Val                 |                 |
| 675   | 680                         | 685             |
| Gln Asp Gly Ile Thr Leu Ile Thr Lys Glu Glu Ala Ser     | Gly Ser Ser                 |                 |
| 690   | 695                         | 700             |
| Val Thr Ala Glu Glu Ala Lys Lys Phe Leu Ala Pro         | Lys Asp Lys Pro             |                 |
| 705   | 710                         | 715 720         |
| Ser Gly Asp Thr Ala Ala Val Phe Glu Glu Gly Gly Asp     | Val Asp Asp                 |                 |
| 725   | 730                         | 735             |
| Leu Leu Asp Met Ile                                     |                             |                 |
| 740   |                             |                 |

&lt;210&gt; 433

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 433

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Pro | Arg | Tyr | Glu | Gly | Arg | Gly | Arg | Gly | Cys | Cys | Gly | Arg | Val |
|     |     |     |     |     |     |     | 5   |     | 10  |     |     |     |     |     | 15  |
| Leu | Leu | Leu | Arg | Arg | Gly | Leu | His | Val | Asp | Cys | Gly | Lys | Leu | Gly | Asn |
|     |     |     |     |     |     |     | 20  |     | 25  |     |     |     |     |     | 30  |
| Lys | Leu | Thr | Ser | Ser | Cys | Gly | Lys | Pro | Ser | Ser | Asn | Arg | Met | Ser | Leu |
|     |     |     |     |     |     |     | 35  |     | 40  |     |     |     |     |     | 45  |
| Gln | Trp | Thr | Ala | Val | Ala | Thr | Phe | Leu | Tyr | Ala | Glu | Val | Phe | Val | Val |
|     |     |     |     |     |     |     | 50  |     | 55  |     |     |     |     |     | 60  |
| Leu | Leu | Leu | Cys | Ile | Pro | Phe | Ile | Ser | Pro | Lys | Arg | Trp | Gln | Lys | Ile |
|     |     |     |     |     |     |     | 65  |     | 70  |     |     |     |     |     | 80  |
| Phe | Lys | Ser | Arg | Leu | Val | Glu | Leu | Leu | Val | Ser | Tyr | Gly | Asn | Thr | Phe |
|     |     |     |     |     |     |     | 85  |     |     |     |     |     |     |     | 95  |
| Phe | Val | Val | Leu | Ile | Val | Ile | Leu | Val | Leu | Leu | Val | Ile | Asp | Ala | Val |
|     |     |     |     |     |     |     | 100 |     | 105 |     |     |     |     |     | 110 |
| Arg | Glu | Ile | Arg | Lys | Tyr | Asp | Asp | Val | Thr | Glu | Lys | Val | Asn | Leu | Gln |
|     |     |     |     |     |     |     | 115 |     | 120 |     |     |     |     |     | 125 |
| Asn | Asn | Pro | Gly | Ala | Met | Glu | His | Phe | His | Met | Lys | Leu | Phe | Arg | Ala |
|     |     |     |     |     |     |     | 130 |     | 135 |     |     |     |     |     | 140 |
| Gln | Arg | Asn | Leu | Tyr | Ile | Ala | Gly | Phe | Ser | Leu | Leu | Ser | Phe | Leu |     |
|     |     |     |     |     |     |     | 145 |     | 150 |     |     |     |     |     | 160 |
| Leu | Arg | Arg | Leu | Val | Thr | Leu | Ile | Ser | Gln | Gln | Ala | Thr | Leu | Leu | Ala |
|     |     |     |     |     |     |     | 165 |     | 170 |     |     |     |     |     | 175 |
| Ser | Asn | Glu | Ala | Phe | Lys | Lys | Gln | Ala | Glu | Ser | Ala | Ser | Glu | Ala | Ala |
|     |     |     |     |     |     |     | 180 |     | 185 |     |     |     |     |     | 190 |
| Lys | Lys | Tyr | Met | Glu | Glu | Asn | Asp | Gln | Leu | Lys | Lys | Gly | Ala | Ala | Val |
|     |     |     |     |     |     |     | 195 |     | 200 |     |     |     |     |     | 205 |
| Asp | Gly | Gly | Lys | Leu | Asp | Val | Gly | Asn | Ala | Glu | Val | Lys | Leu | Glu | Glu |
|     |     |     |     |     |     |     | 210 |     | 215 |     |     |     |     |     | 220 |
| Glu | Asn | Arg | Ser | Leu | Lys | Ala | Asp | Leu | Gln | Lys | Leu | Lys | Asp | Glu | Leu |
|     |     |     |     |     |     |     | 225 |     | 230 |     |     |     |     |     | 240 |
| Ala | Ser | Thr | Lys | Gln | Lys | Leu | Glu | Lys | Ala | Glu | Asn | Gln | Val | Leu | Ala |
|     |     |     |     |     |     |     | 245 |     | 250 |     |     |     |     |     | 255 |
| Met | Arg | Lys | Gln | Ser | Glu | Gly | Leu | Thr | Lys | Glu | Tyr | Asp | Arg | Leu | Leu |
|     |     |     |     |     |     |     | 260 |     | 265 |     |     |     |     |     | 270 |
| Glu | Glu | His | Ala | Lys | Leu | Gln | Ala | Ala | Val | Asp | Gly | Pro | Met | Asp | Lys |
|     |     |     |     |     |     |     | 275 |     | 280 |     |     |     |     |     | 285 |
| Lys | Glu | Glu |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     |     |     |     | 290 |     |     |     |     |     |     |     |     |

&lt;210&gt; 434

&lt;211&gt; 349

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Ala | Pro | Trp | Gly | Arg | Gly | Arg | Ala | Ala | Pro | Arg | Cys | Ala | Ser |
|     |     |     |     |     |     | 5   |     |     | 10  |     |     |     |     |     | 15  |
| Ala | Thr | Val | Gly | Gly | Ser | Gly | Ile | Gly | Arg | Leu | Arg | Gly | Ile | Thr | Ser |
|     |     |     |     |     |     |     | 20  |     | 25  |     |     |     |     |     | 30  |
| Ser | Gly | Leu | Lys | Met | Asp | Asn | Lys | Lys | Arg | Leu | Ala | Tyr | Ala | Ile | Ile |

| 35  | 40                          | 45  |
|---|-----------------------------|-----|
| Gln Phe Leu His Asp Gln Leu Arg His Gly     | Gly Leu Ser Ser Asp Ala     |     |
| 50  | 55                          | 60  |
| Gln Glu Ser Leu Glu Val Ala Ile Gln Cys     | Leu Glu Thr Ala Phe Gly     |     |
| 65  | 70                          | 75  |
| Val Thr Val Glu Asp Ser Asp Leu Ala         | Leu Pro Gln Thr Leu Pro Glu |     |
| 85  | 90                          | 95  |
| Ile Phe Glu Ala Ala Ala Thr Gly Lys         | Glu Met Pro Gln Asp Leu Arg |     |
| 100   | 105                         | 110 |
| Ser Pro Ala Arg Thr Pro Pro Ser Glu Glu Asp | Ser Ala Glu Ala Glu         |     |
| 115   | 120                         | 125 |
| Arg Leu Lys Thr Glu Gly Asn Glu Gln Met     | Lys Val Glu Asn Phe Glu     |     |
| 130   | 135                         | 140 |
| Ala Ala Val His Phe Tyr Gly Lys Ala Ile     | Glu Leu Asn Pro Ala Asn     |     |
| 145   | 150                         | 155 |
| Ala Val Tyr Phe Cys Asn Arg Ala Ala Ala     | Tyr Ser Lys Leu Gly Asn     |     |
| 165   | 170                         | 175 |
| Tyr Ala Gly Ala Val Gln Asp Cys Glu Arg     | Ala Ile Cys Ile Asp Pro     |     |
| 180   | 185                         | 190 |
| Ala Tyr Ser Lys Ala Tyr Gly Arg Met         | Gly Leu Ala Leu Ser Ser Leu |     |
| 195   | 200                         | 205 |
| Asn Lys His Val Glu Ala Val Ala Tyr Tyr Lys | Lys Ala Leu Glu Leu         |     |
| 210   | 215                         | 220 |
| Asp Pro Asp Asn Glu Thr Tyr Lys Ser Asn     | Leu Lys Ile Ala Glu Leu     |     |
| 225   | 230                         | 235 |
| Lys Leu Arg Glu Ala Pro Ser Pro Thr Gly     | Gly Val Gly Ser Phe Asp     |     |
| 245   | 250                         | 255 |
| Ile Ala Gly Leu Leu Asn Asn Pro Gly         | Phe Met Ser Met Ala Ser Asn |     |
| 260   | 265                         | 270 |
| Leu Met Asn Asn Pro Gln Ile Gln Gln         | Leu Met Ser Gly Met Ile Ser |     |
| 275   | 280                         | 285 |
| Gly Gly Asn Asn Pro Leu Gly Thr Pro Gly     | Thr Ser Pro Ser Gln Asn     |     |
| 290   | 295                         | 300 |
| Asp Leu Ala Ser Leu Ile Gln Ala Gly Gln     | Gln Phe Ala Gln Gln Met     |     |
| 305   | 310                         | 315 |
| Gln Gln Gln Asn Pro Glu Leu Ile Glu Gln     | Leu Arg Ser Gln Ile Arg     |     |
| 325   | 330                         | 335 |
| Ser Arg Thr Pro Ser Ala Ser Asn Asp Asp     | Gln Gln Glu                 |     |
| 340   | 345                         |     |

&lt;210&gt; 435

&lt;211&gt; 519

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

|                                     |                                 |         |
|-------------------------------------|---------------------------------|---------|
| Gln Pro Ser Ala Glu Pro Arg Arg     | Thr Met Pro Ala Val Asp Lys     | Leu     |
| 5                                   | 10                              | 15      |
| Leu Leu Glu Glu Ala Leu Gln Asp Ser | Pro Gln Thr Arg Ser             | Leu Leu |
| 20                                  | 25                              | 30      |
| Ser Val Phe Glu Glu Asp Ala Gly     | Thr Leu Thr Asp Tyr Thr Asn Gln |         |
| 35                                  | 40                              | 45      |
| Leu Leu Gln Ala Met Gln Arg Val     | Tyr Gly Ala Gln Asn Glu Met Cys |         |

| 50                                      | 55                      | 60                      |
|---|-------------------------|-------------------------|
| Leu Ala Thr Gln Gln                     | Leu Ser Lys Gln         | Leu Ala Tyr Glu Lys Gln |
| 65                                      | 70                      | 75                      |
| Asn Phe Ala Leu Gly Lys Gly Asp         | Glu Glu Val Ile Ser Thr | Leu His                 |
| 85                                      | 90                      | 95                      |
| Tyr Phe Ser Lys Val Val Asp             | Glu Leu Asn Leu         | Leu His Thr Glu Leu     |
| 100                                     | 105                     | 110                     |
| Ala Lys Gln Leu Ala Asp Thr Met Val     | Leu Pro Ile Ile         | Gln Phe Arg             |
| 115                                     | 120                     | 125                     |
| Glu Lys Asp Leu Thr Glu Val Ser         | Thr Leu Lys Asp         | Leu Phe Gly Leu         |
| 130                                     | 135                     | 140                     |
| Ala Ser Asn Glu His Asp Leu Ser Met Ala | Lys Tyr Ser Arg         | Leu Pro                 |
| 145                                     | 150                     | 155                     |
| Lys Lys Lys Glu Asn Glu Lys Val Lys     | Thr Glu Val Gly Lys     | Glu Val                 |
| 165                                     | 170                     | 175                     |
| Ala Ala Ala Arg Arg Lys Gln His         | Leu Ser Ser Leu Gln     | Tyr Tyr Cys             |
| 180                                     | 185                     | 190                     |
| Ala Leu Asn Ala Leu Gln Tyr Arg         | Lys Gln Met Ala         | Met Met Glu Pro         |
| 195                                     | 200                     | 205                     |
| Met Ile Gly Phe Ala His Gly Gln         | Ile Asn Phe Phe         | Lys Gly Ala             |
| 210                                     | 215                     | 220                     |
| Glu Met Phe Ser Lys Arg Met Asp Ser     | Phe Leu Ser Ser Val     | Ala Asp                 |
| 225                                     | 230                     | 235                     |
| Met Val Gln Ser Ile Gln Val Glu         | Leu Glu Ala Glu Ala     | Glu Lys Met             |
| 245                                     | 250                     | 255                     |
| Arg Val Ser Gln Gln Glu                 | Leu Leu Ser Val Asp     | Glu Ser Val Tyr Thr     |
| 260                                     | 265                     | 270                     |
| Pro Asp Ser Asp Val Ala Ala             | Pro Gln Ile Asn Arg     | Asn Leu Ile Gln         |
| 275                                     | 280                     | 285                     |
| Lys Ala Gly Tyr Leu Asn Leu Arg         | Asn Lys Thr Gly         | Leu Val Thr Thr         |
| 290                                     | 295                     | 300                     |
| Thr Trp Glu Arg Leu Tyr Phe             | Thr Gln Gly Gly Asn     | Leu Met Cys             |
| 305                                     | 310                     | 315                     |
| Gln Pro Arg Gly Ala Val Ala             | Gly Leu Ile Gln Asp     | Leu Asp Asn             |
| 325                                     | 330                     | 335                     |
| Cys Ser Val Met Ala Val Asp             | Cys Glu Asp Arg Arg     | Tyr Cys Phe Gln         |
| 340                                     | 345                     | 350                     |
| Ile Thr Thr Pro Asn Gly Lys             | Ser Gly Ile Ile Leu     | Gln Ala Glu Ser         |
| 355                                     | 360                     | 365                     |
| Arg Lys Glu Asn Glu Glu                 | Trp Ile Cys Ala Ile     | Asn Asn Thr Ser Arg     |
| 370                                     | 375                     | 380                     |
| Gln Ile Tyr Leu Thr Asp                 | Asn Pro Glu Ala Val     | Ala Ile Lys Leu Asn     |
| 385                                     | 390                     | 395                     |
| Gln Thr Ala Leu Gln Ala Val             | Thr Pro Ile Thr Ser     | Phe Gly Lys Lys         |
| 405                                     | 410                     | 415                     |
| Gln Glu Ser Ser Cys Pro Ser             | Gln Asn Leu Lys Asn     | Ser Glu Met Glu         |
| 420                                     | 425                     | 430                     |
| Asn Glu Asn Asp Lys Ile Val             | Pro Lys Ala Thr         | Ala Ser Leu Pro Glu     |
| 435                                     | 440                     | 445                     |
| Ala Glu Glu Leu Ile Ala Pro             | Gly Thr Pro Ile Gln     | Phe Asp Ile Val         |
| 450                                     | 455                     | 460                     |
| Leu Pro Ala Thr Glu Phe                 | Leu Asp Gln Asn Arg     | Gly Ser Arg Arg Thr     |
| 465                                     | 470                     | 475                     |
| Asn Pro Phe Gly Glu Asp                 | Glu Ser Phe Pro         | Glu Ala Glu Asp         |

|   |     |     |
|---|-----|-----|
| 485   | 490 | 495 |
| Ser Leu Leu Gln Gln Met Phe Ile Val Arg Phe Leu Gly Ser Met Ala |     |     |
| 500   | 505 | 510 |
| Val Lys Thr Asp Ser Thr Thr                                     |     |     |
| 515   |     |     |

<210> 436  
<211> 357  
<212> PRT  
<213> Homo sapiens

<400> 436

|   |     |     |     |
|---|-----|-----|-----|
| Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala | 5   | 10  | 15  |
|   |     |     |     |
| Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val | 20  | 25  | 30  |
|   |     |     |     |
| Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val | 35  | 40  | 45  |
|   |     |     |     |
| Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu | 50  | 55  | 60  |
|   |     |     |     |
| Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser | 65  | 70  | 75  |
|   |     |     |     |
| Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg | 85  | 90  | 95  |
|   |     |     |     |
| Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile | 100 | 105 | 110 |
|   |     |     |     |
| Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro | 115 | 120 | 125 |
|   |     |     |     |
| Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr | 130 | 135 | 140 |
|   |     |     |     |
| Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val | 145 | 150 | 155 |
|   |     |     |     |
| Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg | 165 | 170 | 175 |
|   |     |     |     |
| Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro | 180 | 185 | 190 |
|   |     |     |     |
| Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg | 195 | 200 | 205 |
|   |     |     |     |
| Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile | 210 | 215 | 220 |
|   |     |     |     |
| Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu | 225 | 230 | 235 |
|   |     |     |     |
| Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn | 245 | 250 | 255 |
|   |     |     |     |
| Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu | 260 | 265 | 270 |
|   |     |     |     |
| Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr | 275 | 280 | 285 |
|   |     |     |     |
| Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr | 290 | 295 | 300 |
|   |     |     |     |
| Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met | 305 | 310 | 315 |
|   |     |     |     |
| Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr |     |     | 320 |

|   |     |     |
|---|-----|-----|
| 325   | 330 | 335 |
| Pro Pro Pro Gln Pro |     |     |
| 340   | 345 | 350 |
| Ser Tyr Ser Thr Leu   |     |     |
| 355   |     |     |

<210> 437  
<211> 501  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 437

|   |     |
|---|-----|
| cgcaccagct ctctgctctc ccagcgcagc gccggccccc ggccccctcca gtttcccgga  | 60  |
| ccatggccaa cctggagcgc accttcatcg ccatcaagcc ggacggcggt cagcgcggcc   | 120 |
| tgggtggcgaa gatcatcaag cgcttcgagc agaaggatt ccgcctcggt gccatgaagt   | 180 |
| tcctccgggc ctctgaagaa cacctgaagc agcactacat tgacctgaaa gaccgaccat   | 240 |
| tcttccctgg gctggtaag tacatgaact cagggccgt tggccatg gtctggagg        | 300 |
| ggctgaacgt ggtgaagaca ggccgagtgta tgcttggga gaccaatcca gcagattcaa   | 360 |
| agccaggcac cattcgtggg gacttctgca ttcaagggtgg caggaacatc attcatggca  | 420 |
| gtgattcagt aaaaagtgtct gaaaaagaaa tcancctatg gtttaagcct gaanaacttgg | 480 |
| ttgactacaa gtcttgtct c  | 501 |

<210> 438  
<211> 501  
<212> DNA  
<213> Homo sapiens

<400> 438

|   |     |
|---|-----|
| tggaaatactg gagctgttgt agaagaaaaa cttctgattt taatacattc ttagcccaag  | 60  |
| agggtgtac aaaaggaaaa cacatgtgaa ctaaaaaaga tgctggaaa aaagtgttc      | 120 |
| catgtagaca tgactggcat cagactggag ggtgaaagtt cattttcaat atatgctaaa   | 180 |
| aactcaattc cagaacttag ccgagtagaa gcaaatagca cattgttaaa tgtgcatttt   | 240 |
| gtatattgtaa gagagaagga atttgcataa aatgtgaaat tatgggggtgt gattgtatgt | 300 |
| aaggcaagtt atgttaactat gactgcaaca aagattgaaa tcactatgag aaaagctgaa  | 360 |
| ccgatgcagt gggcaaggcct tgaactgcct gcagctaaaa agcaggaaaa acaaaaaagat | 420 |
| gacacaacac attgagtggg agatggaaagg aaggcttata cattattttcc gaatttttaa | 480 |
| tactgtgtga agtgggtggc t   | 501 |

<210> 439  
<211> 501  
<212> DNA  
<213> Homo sapiens

<400> 439

|   |     |
|---|-----|
| taaaacaagc acttgataaa cttaaactgt catcaggaa tgaagaaaaat aagaaagaag   | 60  |
| aagacaatga tggaaattaag attgggacct catgtaaagaa tggagggtgt tcaaagacat | 120 |
| accagggtct agagagtcta gaagaagtct gtgttatata ttctggagta cctattttcc   | 180 |

|                      |              |             |            |             |             |     |
|----------------------|--------------|-------------|------------|-------------|-------------|-----|
| atgagggat            | gaaatactgg   | agctgttgc   | gaagaaaaac | ttctgattt   | aatacattct  | 240 |
| tagcccaaga           | gggctgtaca   | aaaggaaaac  | acatgtggac | taaaaaagat  | gctggggaaa  | 300 |
| aagtgttcc            | atgttagacat  | gactggcatc  | agactggagg | tgaagttacc  | atttcagtat  | 360 |
| atgctaaaaa           | ctcaacttcca  | gaacttagcc  | cgagtagaag | caaatacgac  | attgttaaat  | 420 |
| gtgcataattt          | tatgttgcagg  | agagaaggaa  | tttgatcaaa | atgtgaaatt  | atggggtgtg  | 480 |
| attgtatgtaa          | agcgaattat t |             |            |             |             | 501 |
| <210> 440            |              |             |            |             |             |     |
| <211> 481            |              |             |            |             |             |     |
| <212> DNA            |              |             |            |             |             |     |
| <213> Homo sapiens   |              |             |            |             |             |     |
| <220>                |              |             |            |             |             |     |
| <221> misc_feature   |              |             |            |             |             |     |
| <222> (1)...(481)    |              |             |            |             |             |     |
| <223> n = A,T,C or G |              |             |            |             |             |     |
| <400> 440            |              |             |            |             |             |     |
| tgatccatat           | tgttttgcgg   | agtttcatga  | gcatcgcat  | gcagctgcag  | cattagctgc  | 60  |
| tatgaatgga           | cggaagataa   | tgggttaagga | agtcaaagtg | aattgggcaaa | caacccttag  | 120 |
| cagtcaaaag           | aaagatacaa   | gcaatcattt  | ccatgtcttt | tttgggtgatc | tcagccccaga | 180 |
| aattacaact           | gaagatataa   | aagctgtttt  | tgcaccattt | ggaagaatat  | cagatgcccgg | 240 |
| agtggtaaaa           | gacatggcaa   | caggaaagtc  | taaggatata | ggctttgtct  | ccttttcaaa  | 300 |
| caaatggat            | gctgaaaacg   | ccattcaaca  | gatgggtggc | cagtggcttg  | gtgaaagaca  | 360 |
| aatcagaact           | aactgggcaa   | cccgaaagcc  | tcccgctcca | aagagtacat  | atgagtcaaa  | 420 |
| taccaaacag           | ctatcatatg   | atganggtgt  | aaatcagtct | aatccaagca  | actgtctgtat | 480 |
| t                    |              |             |            |             |             |     |